

LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER & MODEL NO.	DESCRIPTION	LAMPS	WATTS	LUMENS	VOLTS	REMARKS
A	JUNO JSF-5IN07LM-30K-90CRI-MVO LTZT-WH	5" RECESSED	LED	10	700	120/277	0-10V DIMMING. MOUNT TO UNDERSIDE OF CANOPY. PROVIDE MOTION CONTROL UNDER NORTH CANOPY
B	COOPER LIGHTING 9002-W1-RW-LED3090-W-BK	EXTERIOR WALL SCONCE	LED	10	726	120/277	BUILDING MOUNTED FIXTURE REFER TO MOUNTING HEIGHT ON PLAN
B1	COOPER LIGHTING 9003-W1-RW-LED3090-W-BK	EXTERIOR WALL SCONCE	LED	20	1358	120/277	BUILDING MOUNTED FIXTURE REFER TO MOUNTING HEIGHT ON PLAN
SA	LITHONIA DSX0-LED-P1-30K-BLC-MVOLT-SPA	POLE LIGHT	LED	38	3586	120/277	PROVIDE 12' POLE LITHONIA# SSS-10'-4C-DM19AS-DBLXD, ON 2' BASE. MOUNTING HEIGHT OF 14' AFG.
SA1	LITHONIA DSX0-LED-P1-30K-T3S-MVOLT-SPA-HS	POLE LIGHT	LED	38	3586	120/277	PROVIDE 12' POLE LITHONIA# SSS-10'-4C-DM19AS-DBLXD, ON 2' BASE. MOUNTING HEIGHT OF 14' AFG.
SB	COOPER LIGHTING BRT6-A1-730-U-T3-30-BK	BOLLARD	LED	5.4	489	120/277	
WP	LITHONIA WDGE2-LED-P1-30K-80CRI-VW-MVOLT-SMR-NLTAIR2 PIR	WALL PACK	LED	10	1122	120/277	WALL PACK TO BE MOUNTED AT 8' AFG. WALL PACK TO DIM TO 0% WHEN UNOCCUPIED, 50% WHEN MOTION IS DETECTED

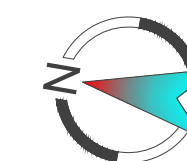
SITE PHOTOMETRIC PLAN
SCALE: 1/8" = 1'-0"



LIGHTING ISOLINES LEGEND	
COLOR	FOOTCANDLES
RED	1.0
BLUE	0.5
GREEN	0.1

LIGHTING LEVELS TABLE				
Description	Symbol	Avg	Max	Min
PARKING LOT	+	1.4 fc	6.6 fc	0.1 fc

278 MAIN STREET



Pearson & Associates
MECHANICAL & ELECTRICAL ENGINEERS
A SUBSIDIARY OF DuBOIS & KING INC.

PERMIT SET
9/30/21

DATE: 09.30.2021
DRAWN BY: CDJ



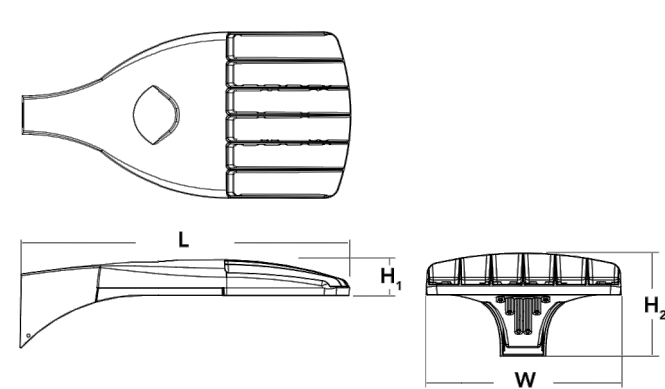
D-Series Size 0 LED Area Luminaire



Buy American

Specifications

EPA: 0.95 ft² (0.09 m²)
Length: 26" (66.0 cm)
Width: 13" (33.0 cm)
Height: 3" (7.62 cm)
Height: 7" (17.8 cm)
Weight: 16 lbs (7.25 kg)
(max):



Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAR2 PIRHN DDBXD

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics P1 P5 P2 P6 P3 P7 P4 P10 P12 P11 P13	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium T5M Type V short T5V Type V very short	T5S Type V short ¹ T5M Type V medium ¹ T5V Type V wide ¹ BLC Backlight control ⁴ LCCO Left corner cutoff ⁴ RCCO Right corner cutoff ⁴	Shipped included SPA Square pole mounting ¹⁰ RPA Round pole mounting ¹⁰ WBA Wall bracket ¹ SPUMBA Square pole universal mounting adaptor ¹¹ RPUMBA Round pole universal mounting adaptor ¹¹ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹²

Control options	Other options	Finish (request)
Shipped installed NLTAR2 nLight AIR generation 2 enabled ^{13,14} PIRHN Network, high/low motion/ambient sensor ¹⁵ PER NEMA twist-lock receptacle only (control ordered separate) ¹⁶ PER5 Five-pin receptacle only (control ordered separate) ¹⁶ PER7 Seven-pin receptacle only (loads not fixture) (control ordered separate) ¹⁶ DMG 0-10V dimming extend out back of housing for external control (control ordered separate) ¹	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 36" ^{10,15} PIRHN High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 36" ^{10,15} PIRHNFCV High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 16" ^{10,15} PIRHNFCV High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 16" ^{10,15} FAD Field adjustable output ¹⁷	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBXD Textured dark bronze DBLXD Textured natural aluminum DNAXD Textured white DWHXD Textured white

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DSX0-LED
Rev. 07/19/21
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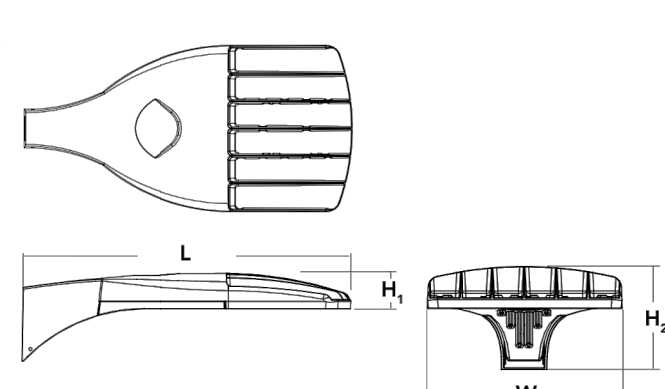
D-Series Size 0 LED Area Luminaire



Buy American

Specifications

EPA: 0.95 ft² (0.09 m²)
Length: 26" (66.0 cm)
Width: 13" (33.0 cm)
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Height: 7" (17.8 cm)
Weight: 16 lbs (7.25 kg)
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Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAR2 PIRHN DDBXD

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics P1 P5 P2 P6 P3 P7 P4 P10 P12 P11 P13	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium T5M Type V short T5V Type V very short	T5S Type V short ¹ T5M Type V medium ¹ T5V Type V wide ¹ BLC Backlight control ⁴ LCCO Left corner cutoff ⁴ RCCO Right corner cutoff ⁴	Shipped included SPA Square pole mounting ¹⁰ RPA Round pole mounting ¹⁰ WBA Wall bracket ¹ SPUMBA Square pole universal mounting adaptor ¹¹ RPUMBA Round pole universal mounting adaptor ¹¹ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹²

Control options	Other options	Finish (request)
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DSX0-LED
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JUNO

Project:

Fixture Type: A

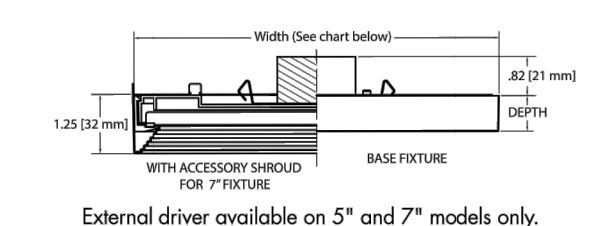
Location:

Contact/Phone:

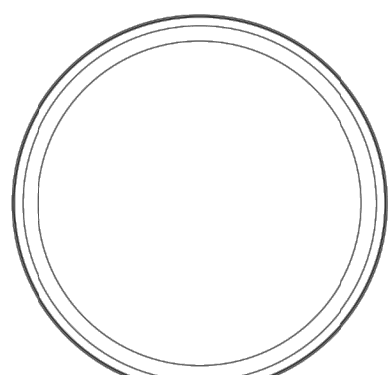
JUNO SLIMFORM™ LED SURFACE MOUNT DOWNLIGHTS FOR J-BOX INSTALLATION 5", 7", 11", 13" ROUND JSF SERIES



DIMENSIONS



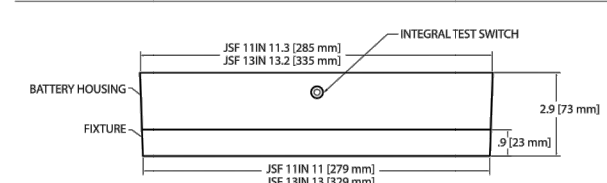
External driver available on 5" and 7" models only.



ROUND SPECIFICATIONS

	Width	Depth
JSF 5IN	5.25 (13.34)	0.75 (1.91)
JSF 7IN	7.77 (19.74)	0.75 (1.91)
JSF 11IN	11.08 (28.14)	0.9 (2.29)
JSF 13IN	13.05 (33.15)	0.9 (2.29)

EMERGENCY BATTERY FOR 11" AND 13"



PRODUCT DESCRIPTION

Sleek, ultra-low profile energy efficient LED surface mount downlights in multiple sizes from 5" to 13" • Provides economical installation by mounting directly over standard and fire-rated junction boxes • Optional finish trims and shrouds available for custom, designer look similar to standard recessed downlights • Provides general illumination in residential and commercial applications including multi-family and hospitality • Ideal for use in corridors, living spaces, closets, hallways, pantries, stairways, outdoor covered areas without Emergency Option and much more.

PRODUCT SPECIFICATIONS

Construction Shallow, less than 1", solid ring with white finish • Non conductive fixture for shower light applications • Optional, field installable finish trims available for 5" and 7" versions to change the exterior finish of fixture • Optional, field installable decorative baffle and cone shrouds for 5" and 7" versions provide the aesthetic and source shielding similar to the experience of a fully recessed downlight.

Optics Light guide technology combined with diffusing lens conceals the LEDs from direct view and provides uniform lens luminance.

LED Light Engine LEDs mounted directly to heatsink designed to provide superior thermal management and ensure long life • 2700K, 3000K, 3500K or 4000K LED color temperature • LEDs binned for 4-step MacAdam ellipse color consistency • 90 CRI minimum.

LED Driver Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • External driver is only available on 5" and 7" models • For a list of compatible dimmers, see JUNO.SLIMFORM.COM.

Emergency Battery Option Available on fixture sizes 11" and larger • Battery factory assembled to fixture with integral test switch (EL option) • Drives LEDs for 90 minutes to meet Life Safety Code (NFPA-101), National Electrical Code (NEC), and UL requirements • Emergency battery not available in California due to Title 20 restrictions • EBX option provides back box without battery for consistent look when used in same space as fixtures with EL emergency option • Dump location only with emergency option.

Life Rated for 50,000 hours at >70% lumen maintenance.

Labels ENERGY STAR® certified • Certified to the high efficacy requirements of California 124 JAS-2016 • CSA listed for US and Canada • Suitable for wet locations (covered ceilings) • Dump location only with emergency option.

Testing All reports are based on published industry procedures; actual performance may differ as a result of the end-user environment and applications. All values are design or typical values, measured under laboratory conditions at 25 °C.

Warranty 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Specifications subject to change without notice.

INSTALLATION

Junction Box Mounting Fixture provided with leads for direct wire connection in box • Installs directly to industry standard junction boxes • Compatible boxes include 4" metal or plastic octagonal standard and fire-rated junction boxes (1/2" junction box screw-hole spacing required for installation) • Minimum 2 1/8" deep junction box required for 5" and 7" fixtures (no depth requirement for 11" and larger fixtures) • Quick mount bracket provides fast installation of fully assembled fixture to junction box • Suitable for ceiling mount • Suitable for use within closet storage spaces when installed per NEC requirements.

Junction box sizes vary - Verify compatibility with fixture prior to installation

Acuity Brands

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JUNO SLIMFORM™ LED SURFACE MOUNT DOWNLIGHTS FOR J-BOX INSTALLATION 5", 7", 11", 13" ROUND JSF SERIES

PERFORMANCE DATA

	JSF 5IN	JSF 7IN	JSF 11IN	JSF 13IN
Lumens	700	1000	1300	1800
CU	90CRI	90CRI	90CRI	90CRI
CU	27K, 30K, 35K, 40K	27K, 30K, 35K, 40K	27K, 30K, 35K, 40K	27K, 30K, 35K, 40K
Voltage	120V	120V/277V	120V	120V/277V
Input Power	10W	10W	13W	15W
Input Current	110mA	50mA	150mA	60mA
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor	>0.9	>0.9	>0.9	>0.9

ORDERING INFORMATION

Example: JSF 5IN 07LM 27K 90CRI 120 FRPC WH

Series	Size/Lumens	Color Temperature	CRI	Voltage/Driver	Finish	Emergency Battery ^{1,2,3}
JSF	SlimForm Surface Mount Downlight - Round	SIN 07LM 5", 700 Lumens 7IN 10LM 7", 1000 Lumens 11IN 13LM 11", 1300 Lumens 13IN 18LM 13", 1800 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	90+ CRI 120 FRPC Dedicated 120V, Forward Reverse Phase Dimming Universal Voltage 120V-277V, 0-10V Dimming	WH White MVOLT ZT	EL* Battery Back-up Option EBX Empty Back Box for aesthetics

* EL Battery Back-up option is not Energy Star certified

ACCESSORIES

TRIM - Optional, field installable finish trim rings available to change the exterior finish of fixture.

Example: JSFTRIM 5IN BL

Series	Size	Finish
JSFTRIM	TrimForm Accessory-Trim	5IN 5 inches 7IN 7 inches BL Black BZ Bronze SN Satin Nickel

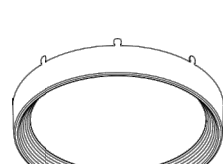


TRIM

SHROUD - Optional, field installable decorative baffle and cone shrouds provides the aesthetic and source shielding similar to the experience of a fully recessed downlight.

Example: JSFSHROUD 5IN DB WWH

Series	Size	Shroud Style	Finish
JSFSHROUD	TrimForm Accessory Shroud - Round	DB Downlight Baffle	WWH White trim, white shroud

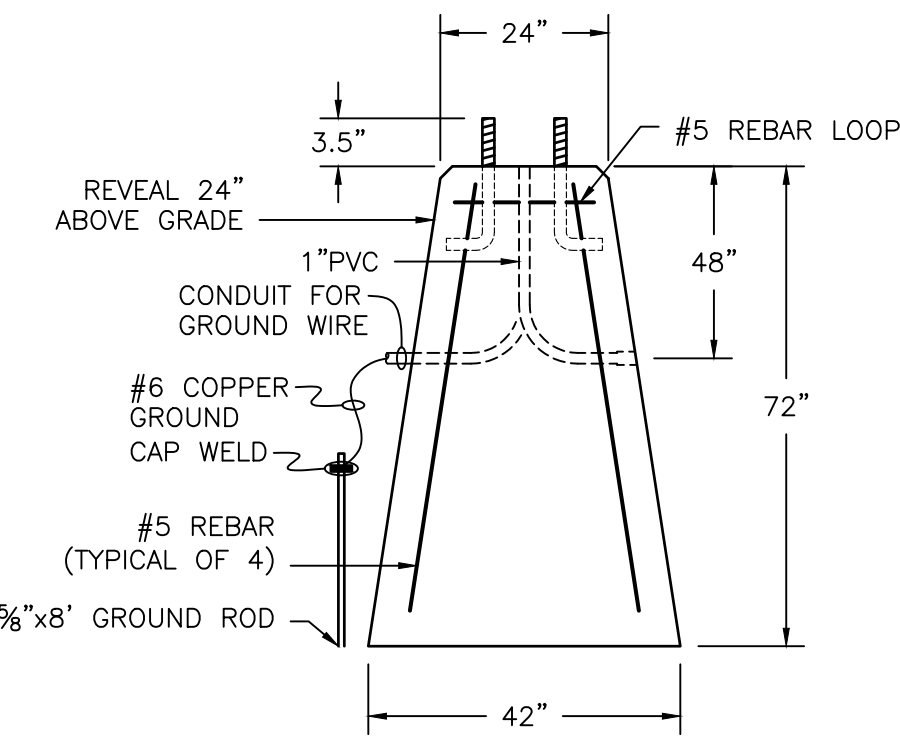
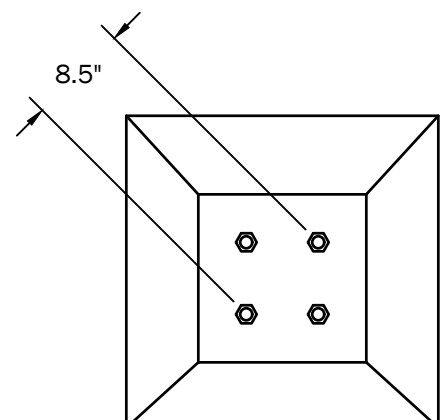


BAFFLE SHROUD

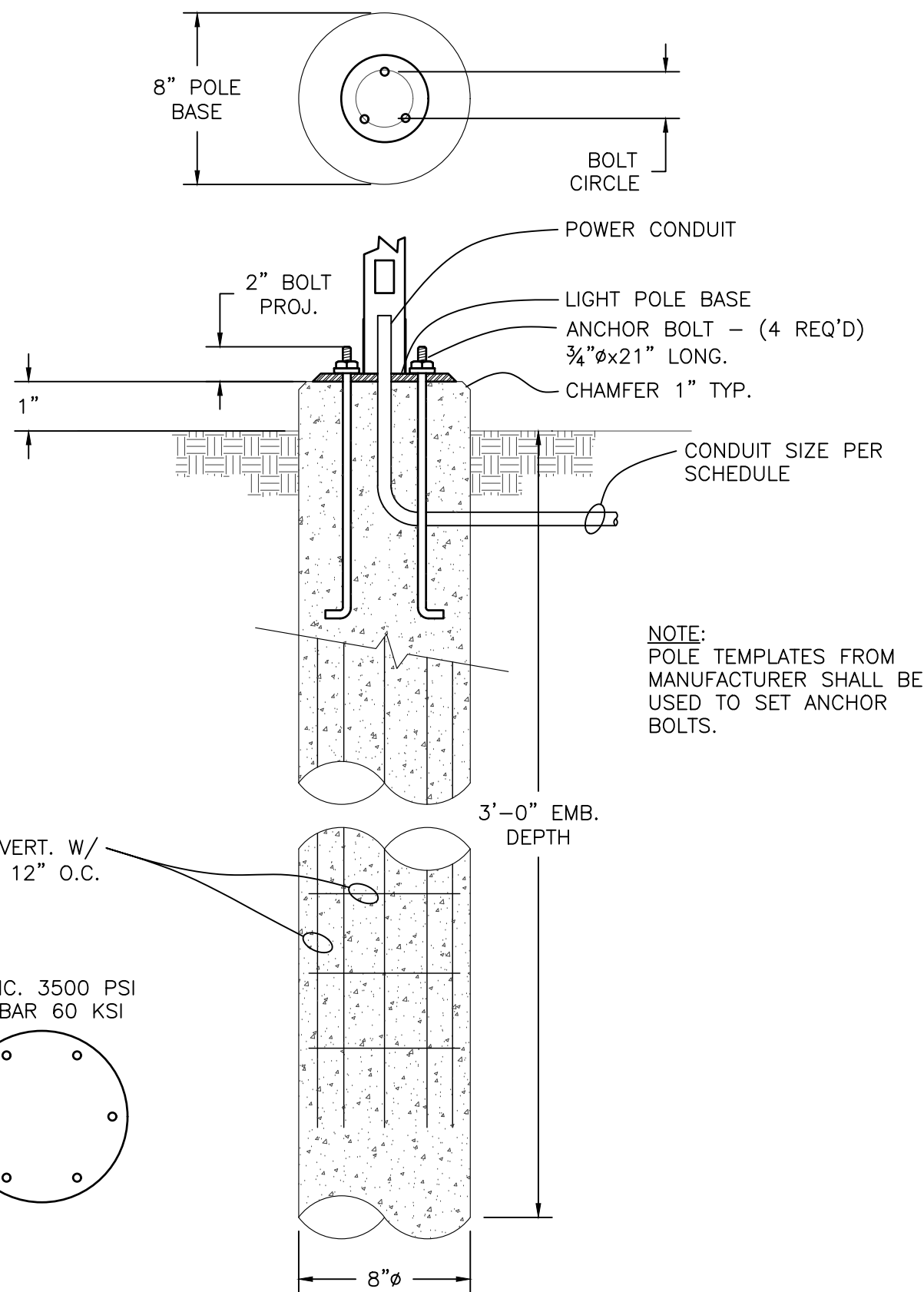
Notes:
1 Emergency battery available with 11IN and 13IN only.
2 Emergency battery is only available with MVOLT ZT.
3 Emergency battery option not available in California due to Title 20 restrictions.

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TAPERED LIGHT POLE BASE DETAIL NOT TO SCALE



BOLLARD CONCRETE BASE DETAIL NOT TO SCALE

278 MAIN STREET

Pearson & Associates
MECHANICAL & ELECTRICAL ENGINEERS
A SUBSIDIARY OF DUBOIS & KING INC.



DATE: 09.30.2021
DRAWN BY: CDJ

PERMIT SET

9/30/21

DESCRIPTION

Lanterra 9002-W1 (Up or Down) and 9002-W2 (Up and Down) are small 2.5" O.D., line voltage cylinder fixtures with dimmable LED. The luminaire comes in various mountings, surface mount with integral driver in the housing, remote driver mount with round and square wall plates and square wall integral driver, all of which can be mounted over standard 4 inch J-box. The luminaire also comes with various field replaceable optics. It also comes with various lens, louvers and colors or dichroic filters, which can combine up to two at once to create multiple lighting effects. The fixture may be used indoors or outdoors and carries IP66 rating.

SPECIFICATION FEATURES

Material
Housing and hood are precision-machined from corrosion resistant billet stock 6061-T6 aluminum, C360 brass, C382 bronze*, C108 copper or 303/304 stainless steel.

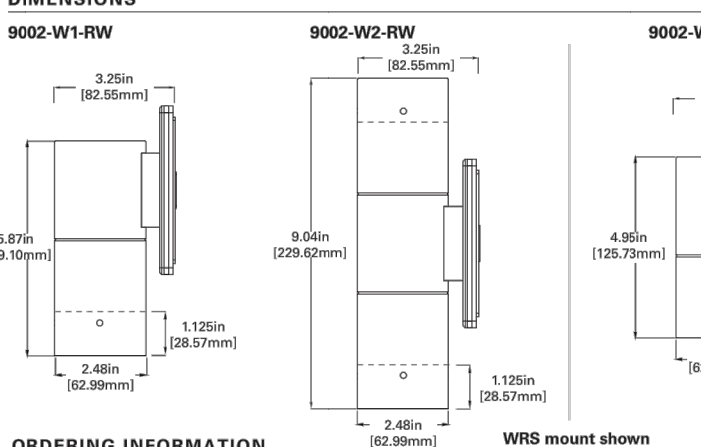
Finish
Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS* chemical film undercoating and polyester powder coat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

Hardware
Stainless steel hardware is standard to provide maximum corrosion resistance.

Electrical
Long life LED system coupled with electronic driver (120-277V/50-60Hz) is compatible with TRIAC (Leading Edge Dimming), ELV (Trailing Edge Dimming) and 0-10V dimming to deliver optical performance. Light can be dimmed from 100-1% while maintaining constant CCT. It will operate in -30°C to 50°C unless noted otherwise. The driver incorporates surge protection. LED's are available in 2700K, 3000K, 3500K at 80CRI and 970CRI, 4000K at 80CRI and 970CRI, 5000K at 80CRI and are industry leading high output with 86% lumen maintenance at 60,000hrs.

Head
Hood is removable and accepts up to two internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in

Dimensions



ORDERING INFORMATION

SERIES	DIRECTION	HOOD	LED CCT & CH	FIELD REPLACEABLE OPTIC	FINISH	LIGHT LEVEL	VOLTAGE	MOUNTING	OPTIONS
9002	W1 W2	Up or Down Up and Down	Standard CBI LED 2700 - 2700K, 90 CRI LED 3000 - 3000K, 90 CRI LED 4000 - 4000K, 90 CRI LED 5000 - 5000K, 90 CRI LED 5000 - 5000K, 97 CRI LED 4000 - 4000K, 97 CRI	S M F W	Standard Paint Finish BK Black BZ Bronze CS City Silver WT White Premium Metal NBR Natural Brass NBSZ Natural Bronze NCP Natural Copper NSS Natural Stainless Steel	Light Level 1 (10W)	120-277V	Surface Mount - Wall, Ceiling, Ground RSM Round Surface Mount - mounts directly to junction box Remote Driver Housing - Round Wall Plate WRSP Remote Driver Housing - Square Wall Plate Integral Driver Mount Thermal Conductive Lensless alternative lensed LED 9002-W1-W2 has 1-4 w-100 LED	DVP02* Standalone integral sensor

Notes: 1. Only available for double head option (W2)
2. Premium metal not available for RSM option
3. Only available for Single head, Up or Down (W1) with RSM only
4. W2 double input settings based on RSM only
5. Remote Driver up to 90'

Specifications and dimensions subject to change without notice.

TD606028EN 11-26-18

Lumiere

Catalog #	Type
Project	B
Comments	Date
Prepared by	

the straight up position. The flush lens design reduces fixture length, minimizes debris collection and prevents water and mineral stains from collecting on the lens.

Gasket
Housing and hood are sealed with a high temperature silicone O-ring gasket to prevent water intrusion.

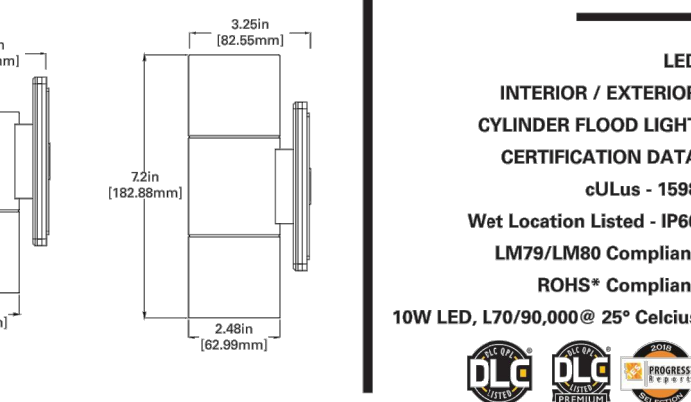
Lens
Tempered glass lens, factory sealed with high temperature silicone O-ring to prevent water intrusion and breakage due to thermal shock.

Hardware
Stainless steel hardware is standard to provide maximum corrosion resistance.

Electrical
Long life LED system coupled with electronic driver (120-277V/50-60Hz) is compatible with TRIAC (Leading Edge Dimming), ELV (Trailing Edge Dimming) and 0-10V dimming to deliver optical performance. Light can be dimmed from 100-1% while maintaining constant CCT. It will operate in -30°C to 50°C unless noted otherwise. The driver incorporates surge protection. LED's are available in 2700K, 3000K, 3500K at 80CRI and 970CRI, 4000K at 80CRI and 970CRI, 5000K at 80CRI and are industry leading high output with 86% lumen maintenance at 60,000hrs.

Head
Hood is removable and accepts up to two internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in

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Notes: 1. Only available for double head option (W2)
2. Premium metal not available for RSM option
3. Only available for Single head, Up or Down (W1) with RSM only
4. W2 double input settings based on RSM only
5. Remote Driver up to 90'

Specifications and dimensions subject to change without notice.

TD606028EN 11-26-18

DESCRIPTION

Lanterra 9003-W1 (Up or Down) and 9003-W2 (Up and Down) are 2.5" O.D., line voltage cylinder fixtures with dimmable LED. The luminaire comes in various mountings, surface mount with integral driver in the housing, remote driver mount with round and square wall plates and square wall integral driver, all of which can be mounted over standard 4 inch J-box. The luminaire also comes with various beam optics. It also comes with various lens, louvers and colors or dichroic filters, which can combine up to two at once to create multiple lighting effects. The fixture may be used indoors or outdoors and carries IP66 rating.

SPECIFICATION FEATURES

Material
Housing, hood and mounting stem are precision-machined from corrosion resistant billet stock 6061-T6 aluminum.

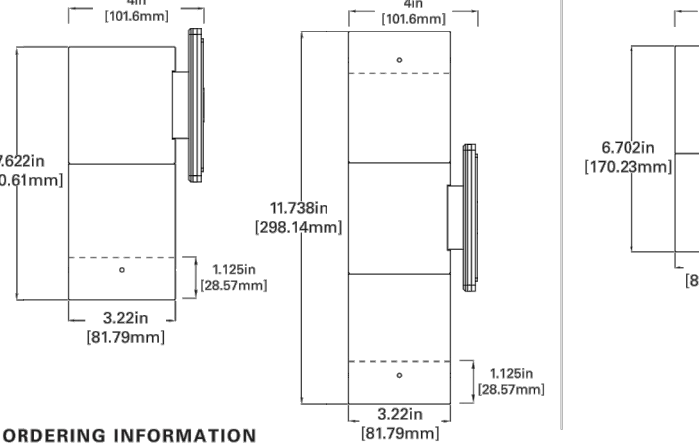
Finish
Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS complaint chemical film undercoating and polyester powder coat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

Hardware
Stainless steel hardware is standard to provide maximum corrosion resistance.

Electrical
Long life LED system coupled with electronic driver (120-277V/50-60Hz) is compatible with TRIAC (Leading Edge Dimming), ELV (Trailing Edge Dimming) and 0-10V dimming to deliver optical performance. Light can be dimmed from 100-1% while maintaining constant CCT. It will operate in -30°C to 50°C unless noted otherwise. The driver incorporates surge protection. LED's are available in 2700K, 3000K, 3500K at 80CRI and 970CRI, 4000K at 80CRI and 970CRI, 5000K at 80CRI and are industry leading high output with 86% lumen maintenance at 60,000hrs.

Head
Hood is removable and accepts up to two internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in

Dimensions



ORDERING INFORMATION

SERIES	DIRECTION	HOOD	LED CCT & CH	FIELD REPLACEABLE OPTIC	FINISH	LIGHT LEVEL	VOLTAGE	MOUNTING	OPTIONS
9003	W1 W2	Up or Down Up and Down	Standard CBI LED 2700 - 2700K, 90 CRI LED 3000 - 3000K, 90 CRI LED 4000 - 4000K, 90 CRI LED 5000 - 5000K, 90 CRI LED 5000 - 5000K, 97 CRI LED 4000 - 4000K, 97 CRI	S M F W	Standard Paint Finish BK Black BZ Bronze CS City Silver WT White Premium Metal NBR Natural Brass NBSZ Natural Bronze NCP Natural Copper NSS Natural Stainless Steel	Light Level 1 (10W)	120-277V	Surface Mount - Wall, Ceiling, Ground RSM Round Surface Mount - mounts directly to junction box Remote Driver Housing - Round Wall Plate WRSP Remote Driver Housing - Square Wall Plate Integral Driver Mount Thermal Conductive Lensless alternative lensed LED 9003-W1-W2 has 1-4 w-100 LED	DVP02* Standalone integral sensor

Notes: 1. Only available for double head option (W2)
2. Premium metal not available for RSM option
3. Only available for Single head, Up or Down (W1) with RSM only
4. W2 double input settings based on RSM only
5. Remote Driver distance up to 90'

Specifications and dimensions subject to change without notice.

TD606024EN 11-26-18

Lumiere

Catalog #	Type
Project	B1
Comments	Date
Prepared by	

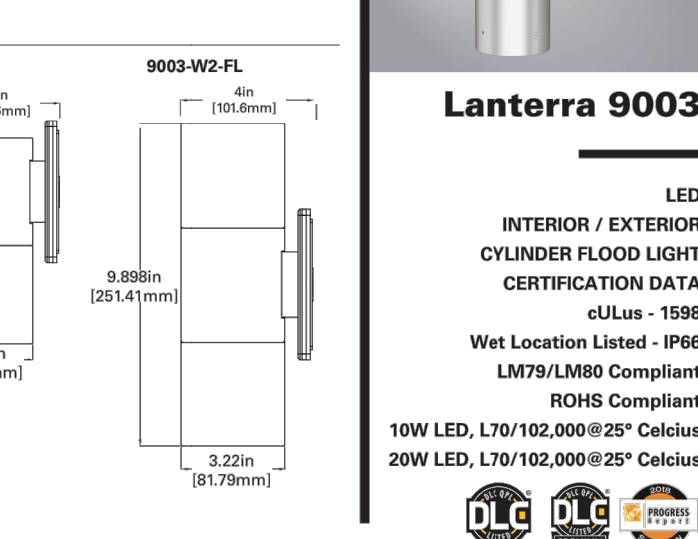
at 80CRI and are industry leading high output with 87% lumen maintenance at 60,000hrs.

Compliance
Components are UL recognized and luminaires are cULus listed for 80°C ambient environments unless noted otherwise, wet location listed, and ROHS compliant. IP66 Rated. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

Warranty
Lumiere warrants the Lanterra series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty.

Head
Hood is removable and accepts up to two internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in

Dimensions



ORDERING INFORMATION

SERIES	DIRECTION	HOOD	LED CCT & CH	FIELD REPLACEABLE OPTIC	FINISH	LIGHT LEVEL	VOLTAGE	MOUNTING	OPTIONS
9003	W1 W2	Up or Down Up and Down	Standard CBI LED 2700 - 2700K, 90 CRI LED 3000 - 3000K, 90 CRI LED 4000 - 4000K, 90 CRI LED 5000 - 5000K, 90 CRI LED 5000 - 5000K, 97 CRI LED 4000 - 4000K, 97 CRI	S M F W	Standard Paint Finish BK Black BZ Bronze CS City Silver WT White Premium Metal NBR Natural Brass NBSZ Natural Bronze NCP Natural Copper NSS Natural Stainless Steel	Light Level 1 (10W)	120-277V	Surface Mount - Wall, Ceiling, Ground RSM Round Surface Mount - mounts directly to junction box Remote Driver Housing - Round Wall Plate WRSP Remote Driver Housing - Square Wall Plate Integral Driver Mount Thermal Conductive Lensless alternative lensed LED 9003-W1-W2 has 1-4 w-100 LED	DVP02* Standalone integral sensor

Notes: 1. Only available for double head option (W2)
2. Premium metal not available for RSM option
3. Only available for Single head, Up or Down (W1) with RSM only
4. W2 double input settings based on RSM only
5. Remote Driver distance up to 90'

Specifications and dimensions subject to change without notice.

TD606024EN 11-26-18

Project	Catalog #	Type	SB
Prepared by	Notes	Date	



McGraw-Edison
BRT6 Bollard

Round LED Pedestrian Luminaire

Typical Applications
Outdoor • Walkway • Perimeter • Landscapes • Hardscapes

Product Certifications



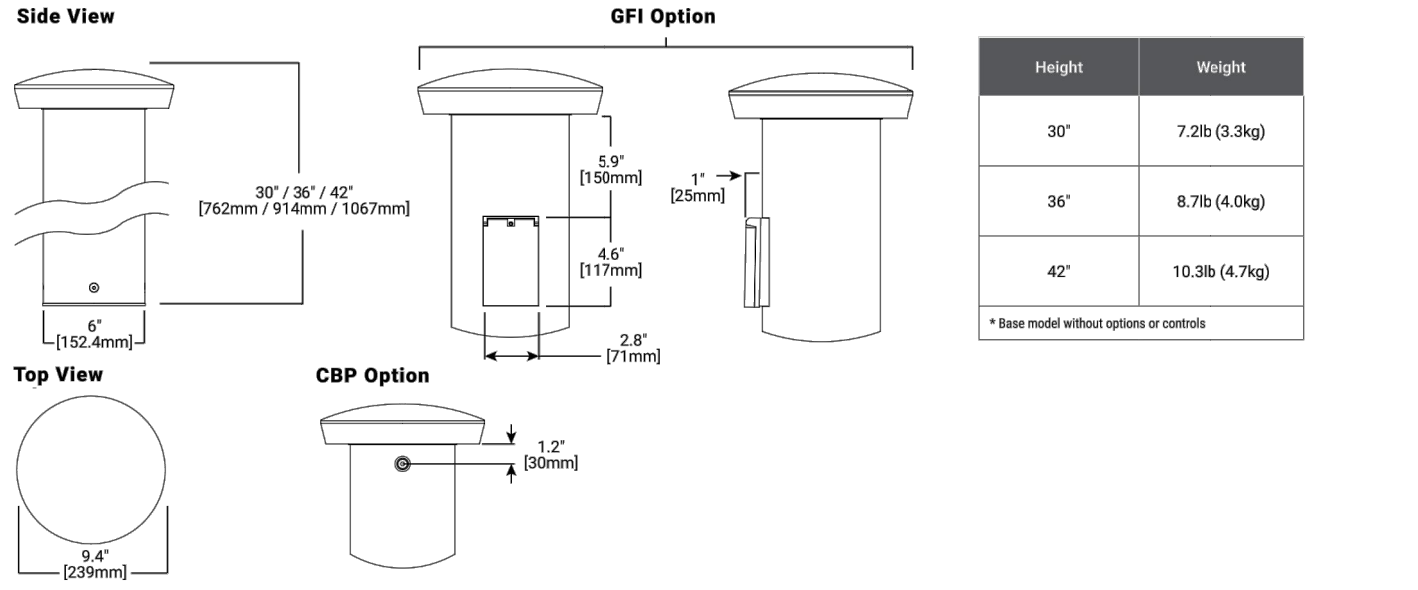
Interactive Menu

- Ordering Information page 2
- Product Specifications page 2
- Optical Distributions page 2
- Energy and Performance Data page 3

Quick Facts

- 4 Optical Distributions
- Available in 30", 36", and 42"
- Lumen packages range from 560 - 4400 (5W - 49W)
- Efficacy up to 122 lumens per watt
- Zero uplight on all configurations

Dimensional Details



COOPER
Lighting Solutions

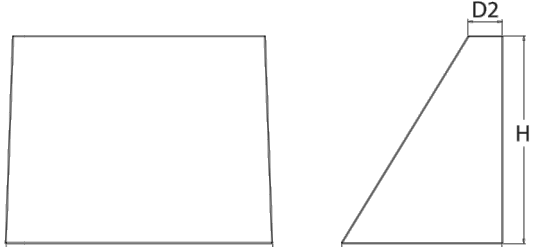
PS000048EN page 1
May 12, 2021 11:54 AM

WDGE2 LED
Architectural Wall Sconce
Precision Refractive Optic



Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: 13.5 lbs
(without options)



WDGE2 LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W	18W	Standalone / n/light	750	1,200	2,000	3,000	4,500	6,000	7,500
WDGE2 LED	Visual Comfort	10W	18W	Standalone / n/light	700	1,200	2,000	3,000	4,500	6,000	7,500
WDGE3 LED	Precision Refractive	10W	18W	Standalone / n/light	700	1,200	2,000	3,000	4,500	6,000	7,500
WDGE3 LED	Precision Refractive	15W	18W	Standalone / n/light	750	1,200	2,000	3,000	4,500	6,000	7,500
WDGE4 LED	Precision Refractive	15W	18W	Standalone / n/light	750	1,200	2,000	3,000	4,500	6,000	7,500

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DBXBD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	Shipped separately
WDGE2 LED	P0 ¹ P1 ² P2 ³ P3 ⁴	27K 3000K 4000K 5000K	70CRI ⁵ 80CRI ⁶ LW ⁷ Limited Wavelength	T1S Type I Short T2M Type II Medium T3M Type III Medium T4M Type IV Medium T5TM Forward Throw Medium	MVOLT 347 ⁸ 480 ⁹	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Mounting bracket (dry/damp locations only)	Shipped separately AWS 3/8" Architectural wall spacer PBBW 5 surface-mounted back box (top, left, right, conduit entry). Use when there is no junction box available.

Options

Options	Finish
E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5% min)	Dark bronze
E20WK Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)	Black
PIR0 Infrared motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk-to-dawn switching.	Natural aluminum
PIR1 Infrared motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk-to-dawn switching.	White
PIR1FCV Infrared motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	Sandstone
PIR1FCV Infrared motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	Textured dark bronze
PIR1FCV Infrared motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	Textured black
PIR1FCV Infrared motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	Textured natural aluminum
PIR1FCV Infrared motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	Textured white
PIR1FCV Infrared motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	Textured sandstone

See page 4 for cut of box functionality

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WDGE2 LED Rev. 08/31/21

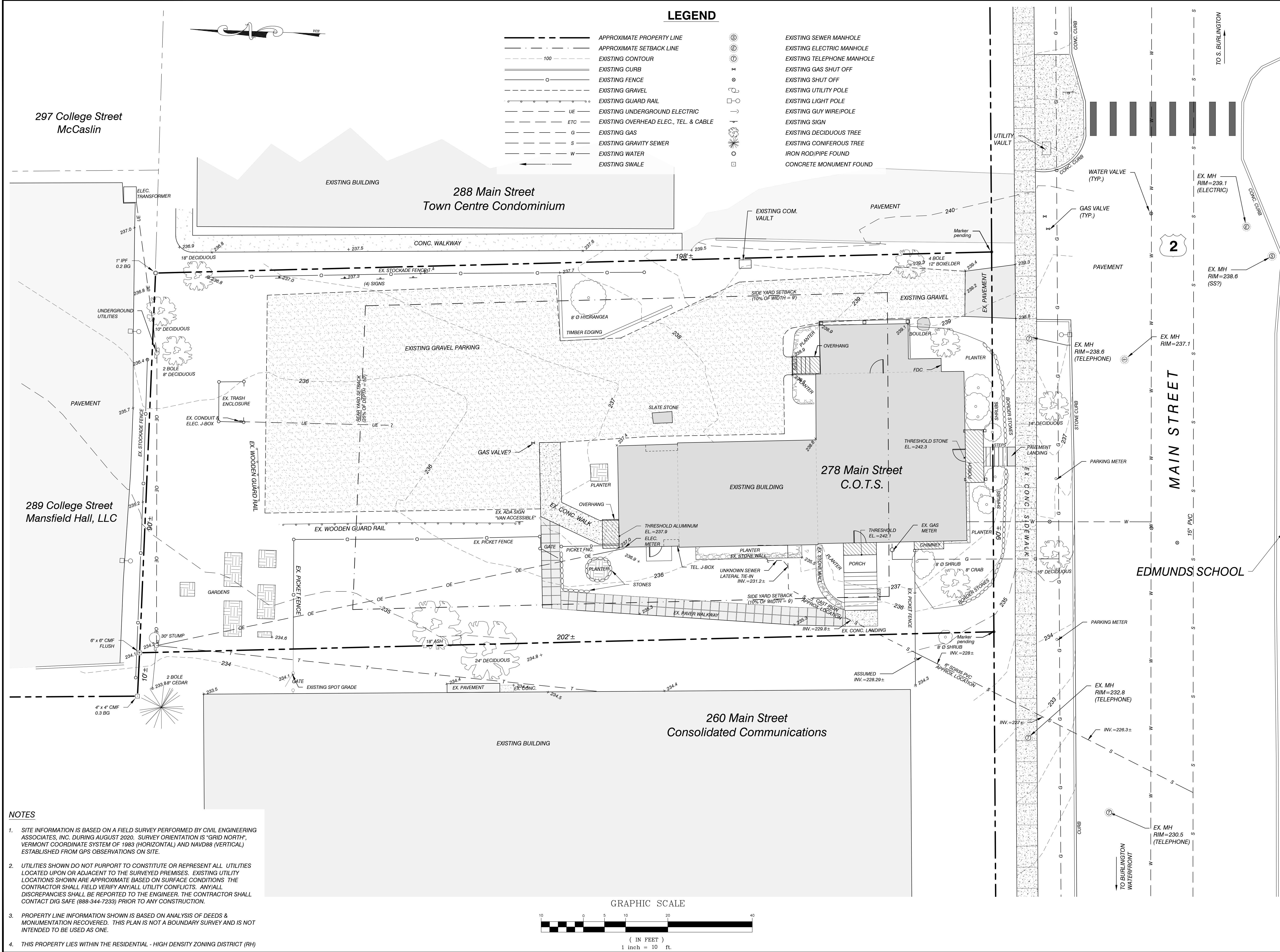
278 MAIN STREET

Pearson & Associates
MECHANICAL & ELECTRICAL ENGINEERS
A SUBSIDIARY OF DUBOIS & KING, INC.

PERMIT SET

9/30/21

DATE: 09.30.2021
DRAWN BY: CDJ



SITE ENGINEER:

CIVIL ENGINEERING ASSOCIATES, INC.
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403
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CLIENT:

Committee on
Temporary Shelter

P.O. Box 1616
Burlington, VT 05402

PROJECT:

C.O.T.S.
Main Street Shelter

278 MAIN STREET
CITY of BURLINGTON, VT

LOCATION MAP

DATE

CHECKED

REVISION

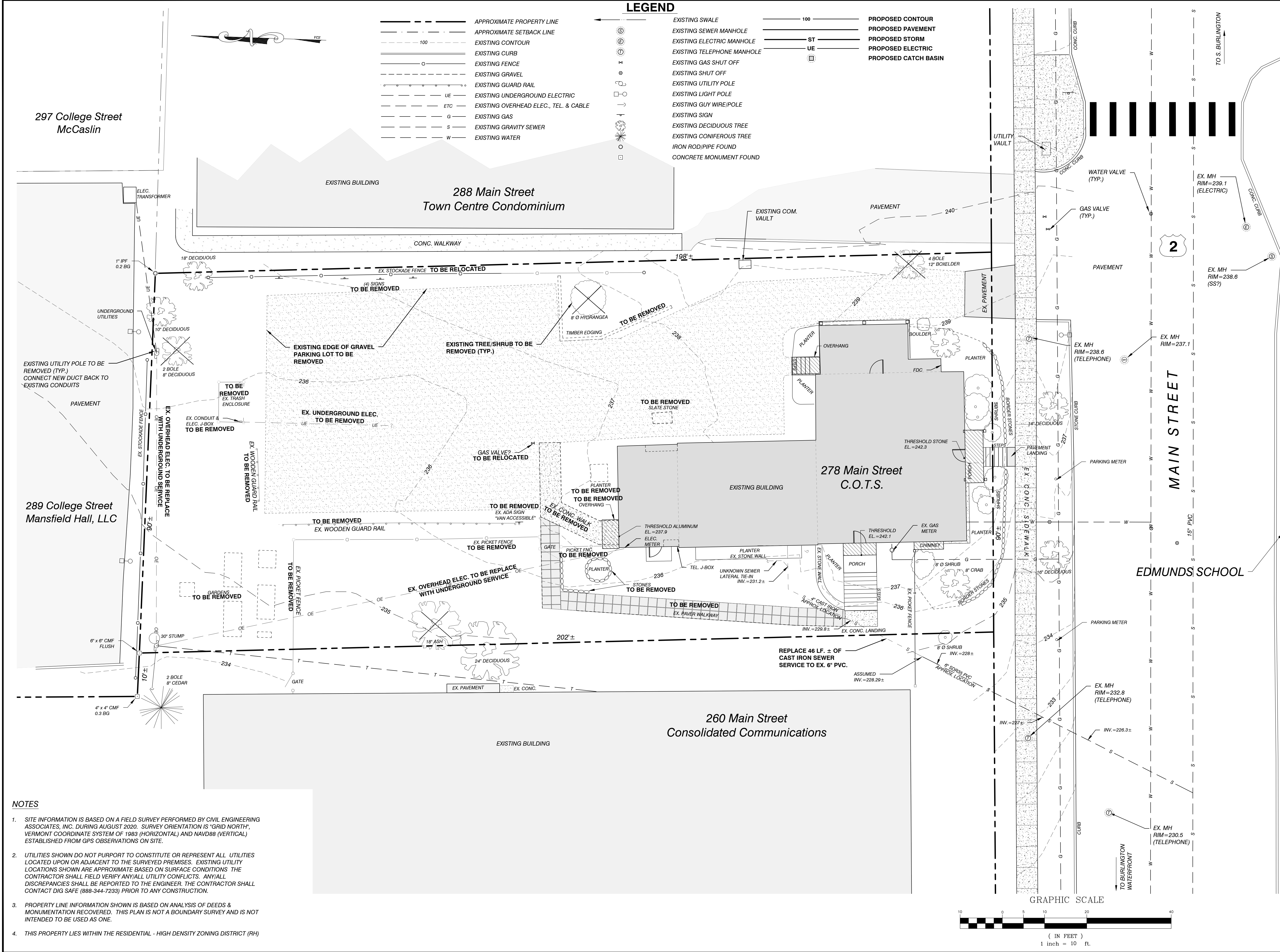
EXISTING
CONDITIONS
PLAN

DATE
09/30/2021


SCALE
1" = 10'

PROJ. NO.
21177

DRAWING NUMBER
C1.0



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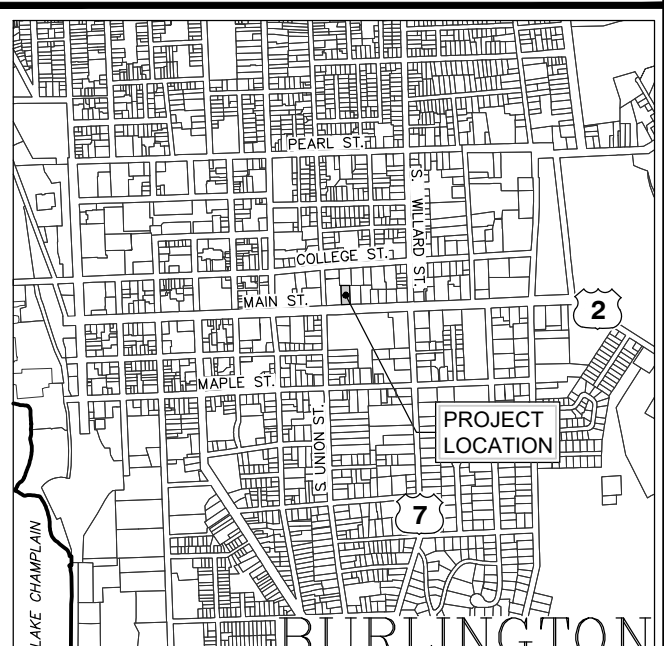
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Burlington, VT 05402

PROJECT:

C.O.T.S.
Main Street Shelter

278 MAIN STREET
CITY of BURLINGTON, VT

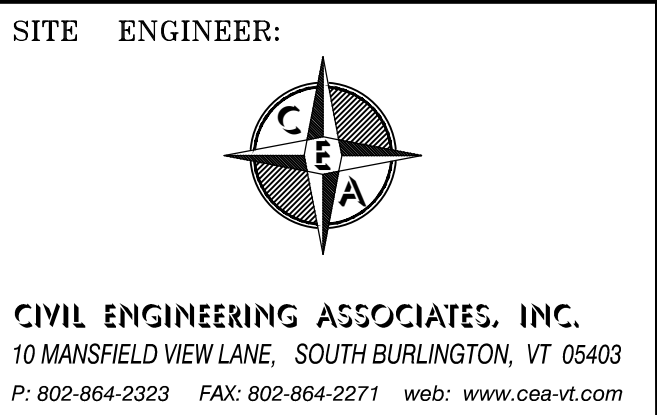
LOCATION MAP



DATE	CHECKED	REVISION

DEMOLITION PLAN

DATE	DRAWING NUMBER
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CLIENT:

*Committee on
Temporary Shelter*

*P.O. Box 1616
Burlington, VT 05402*

PROJECT:

C.O.T.S.
Main Street Shelter

278 MAIN STREET
CITY of BURLINGTON, VT



LOCATION MAP

1" = 2000'

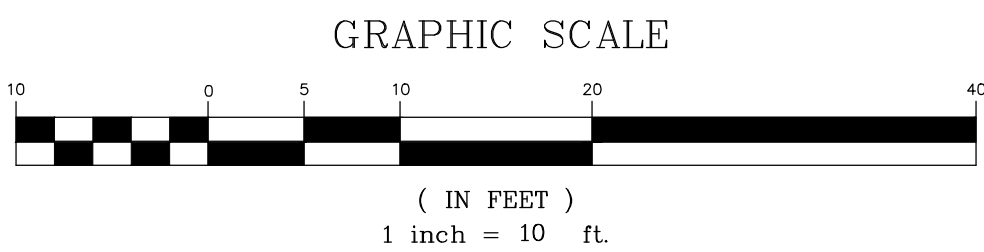
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**PROPOSED
CONDITIONS
PLAN**

DATE	DRAWING NUMBER
09/30/2021	
SCALE	
1" = 10'	C2.0
PROJ. NO.	
21177	

GENERAL NOTES

1. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONFLICTS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL CONTACT DIG SAFE (888-344-7233) PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATING FIRM TO LOCATE OWNER OWNED UNDERGROUND UTILITIES PRIOR TO START OF ANY EXCAVATION.
 2. ALL EXISTING UTILITIES NOT INCORPORATED INTO THE FINAL DESIGN SHALL BE REMOVED OR ABANDONED AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER.
 3. THE CONTRACTOR SHALL MAINTAIN AS-BUILT PLANS (WITH TIES) FOR ALL UNDERGROUND UTILITIES. THOSE PLANS SHALL BE SUBMITTED TO THE OWNER AT THE COMPLETION OF THE PROJECT.
 4. THE CONTRACTOR SHALL REPAIR/RESTORE ALL DISTURBED AREAS (ON OR OFF THE SITE) AS A DIRECT OR INDIRECT RESULT OF THE CONSTRUCTION.
 5. ALL GRASSED AREAS SHALL BE MAINTAINED UNTIL FULL VEGETATION IS ESTABLISHED.
 6. MAINTAIN ALL TREES OUTSIDE OF CONSTRUCTION LIMITS.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY FOR COMPLETE AND OPERABLE FACILITIES AND UTILITIES.
 8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ITEMS AND MATERIALS INCORPORATED INTO THE SITE WORK. WORK SHALL NOT BEGIN ON ANY ITEM UNTIL SHOP DRAWING APPROVAL IS GRANTED.
 9. IN ADDITION TO THE REQUIREMENTS SET IN THESE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL COMPLETE THE WORK IN ACCORDANCE WITH ALL PERMIT CONDITIONS AND ANY LOCAL PUBLIC WORKS STANDARDS.
 10. THE TOLERANCE FOR FINISH GRADES FOR ALL PAVEMENT, WALKWAYS AND LAWN AREAS SHALL BE 0.1 FEET, UNLESS NOTED OTHERWISE, ALL EXISTING MANHOLE COVERS, VALVES, CURB STOPS AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO THE NEW FINISH GRADE.
 11. ANY DEWATERING NECESSARY FOR THE COMPLETION OF THE SITEWORK SHALL BE CONSIDERED AS PART OF THE CONTRACT AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
 12. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN TOWN ROAD R.O.W. WITH TOWN AUTHORITIES.
 13. THE CONTRACTOR SHALL INSTALL THE ELECTRICAL, CABLE AND TELEPHONE SERVICES IN ACCORDANCE WITH THE UTILITY COMPANIES REQUIREMENTS.
 14. EXISTING PAVEMENT AND TREE STUMPS TO BE REMOVED SHALL BE DISPOSED OF AT AN APPROVED OFF-SITE LOCATION. ALL PAVEMENT CUTS SHALL BE MADE WITH A PAVEMENT SAW.
 15. IF THERE ARE ANY CONFLICTS OR INCONSISTENCIES WITH THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR VERIFICATION BEFORE WORK CONTINUES ON THE ITEM IN QUESTION.
 16. PROPERTY LINE INFORMATION IS BASED ON ANALYSIS OF DEEDS & MONUMENTATION RECOVERED. THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE.
 17. IF THE BUILDING IS TO BE SPRINKLERED, BACKFLOW PREVENTION SHALL BE PROVIDED IN ACCORDANCE WITH AWWA C114. THE CONTRACTOR SHALL CONSTRUCT THE WATER LINE TO TWO FEET ABOVE THE FINISHED FLOOR. SEE MECHANICAL PLANS FOR RISER DETAIL.
 18. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING TESTING AND INSPECTION SERVICES INDICATED IN THE CONTRACT DOCUMENTS, TYPICAL FOR CONCRETE AND SOIL TESTING.
 19. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT AND FIELD ENGINEERING REQUIRED FOR COMPLETION OF THE PROJECT. CIVIL ENGINEERING ASSOCIATES WILL PROVIDE AN AUTOCAD FILE WHERE APPLICABLE.
 20. THE OWNER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ANY AND ALL SAFETY FENCES OR RAILS ABOVE EXISTING AND PROPOSED WALLS. THE OWNER SHALL VERIFY LOCAL, STATE AND INSURANCE REQUIREMENT GUIDELINES FOR THE INSTALLATION AND VERIFY ANY AND ALL PERMITTING REQUIREMENTS.

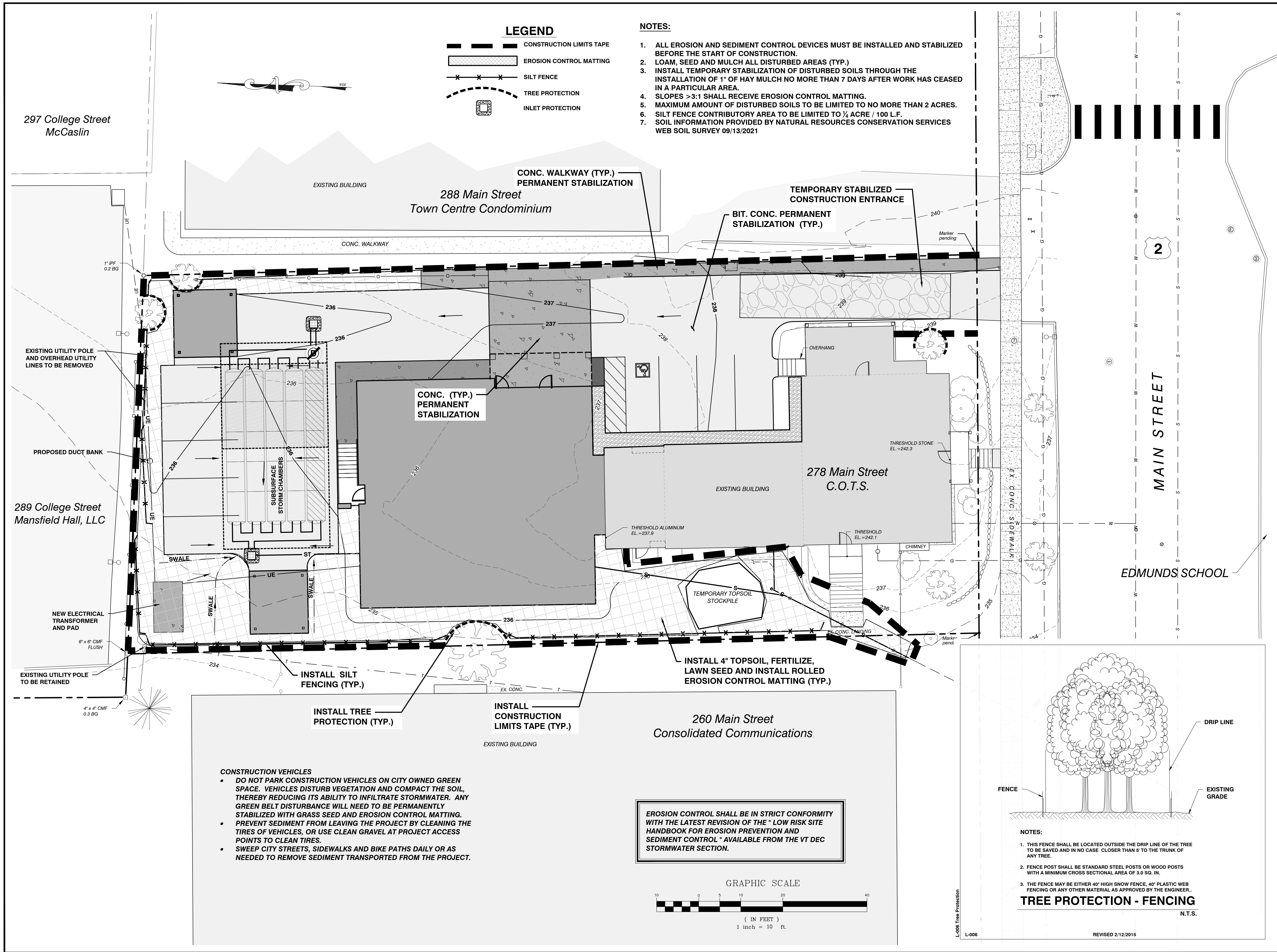


ZONING REQUIREMENTS:

ZONING DISTRICT: RH - RESIDENTIAL - HIGH DENSITY

CATEGORY	REQUIRED	EXISTING LOT	PROPOSED LOT
PARCEL		0.41 ± AC. 18,005 ± S.F.	0.41 ± AC. 18,005 ± S.F.
SETBACK			
FRONT YARD	AVG. 2 ADJ. LOTS BOTH SIDES (± 5')	6' ±	6' ±
SIDE YARD	10% LOT WIDTH MAX. 20'	16' ±	9' ±
REAR YARD	25% LOT DEPTH MIN. 20' / MAX. 75'	108' ±	53' ±
LOT COVERAGE	80% MAX.	54%	73%
MAX. HEIGHT	35'		

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LEGEND

- CONSTRUCTION LIMITS TAPE
- EROSION CONTROL MATTING
- SILT FENCE
- TREE PROTECTION
- INLET PROTECTION

NOTES:

- ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND STABILIZED BEFORE THE START OF CONSTRUCTION.
- LOAM, SEED AND MULCH ALL DISTURBED AREAS (TYP.)
- INSTALL TEMPORARY STABILIZATION OF DISTURBED SOILS THROUGH THE INSTALLATION OF 1" OF HAY MULCH NO MORE THAN 7 DAYS AFTER WORK HAS CEASED IN A PARTICULAR AREA.
- SLOPES >3:1 SHALL RECEIVE EROSION CONTROL MATTING.
- MAXIMUM AMOUNT OF DISTURBED SOILS TO BE LIMITED TO NO MORE THAN 2 ACRES.
- SILT FENCE CONTRIBUTORY AREA TO BE LIMITED TO ¼ ACRE / 100 L.F.
- SOIL INFORMATION PROVIDED BY NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 09/13/2021

SITE ENGINEER:



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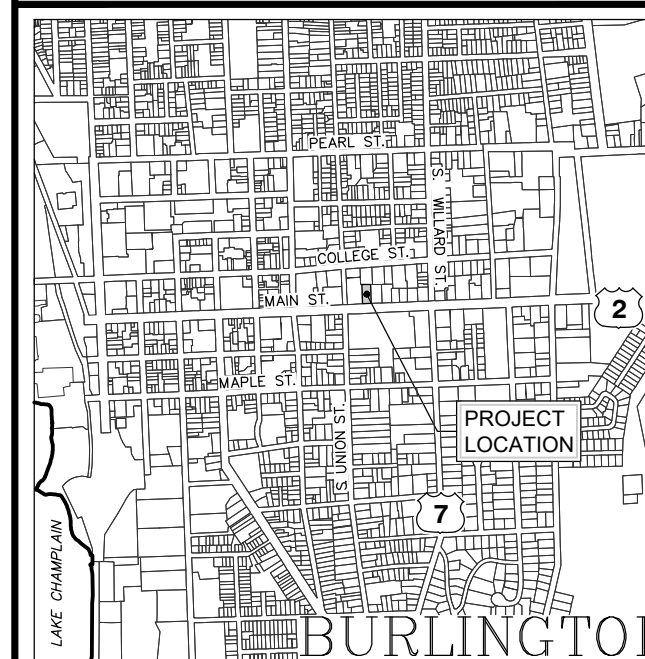
Committee on
Temporary Shelter

P.O. Box 1616
Burlington, VT 05402

PROJECT:

C.O.T.S.
Main Street Shelter

278 MAIN STREET
CITY of BURLINGTON, VT



LOCATION MAP

1" = 2000'

DATE	CHECKED	REVISION

EPSC SITE PLAN

DATE
09/30/2021

SCALE
1" = 10'

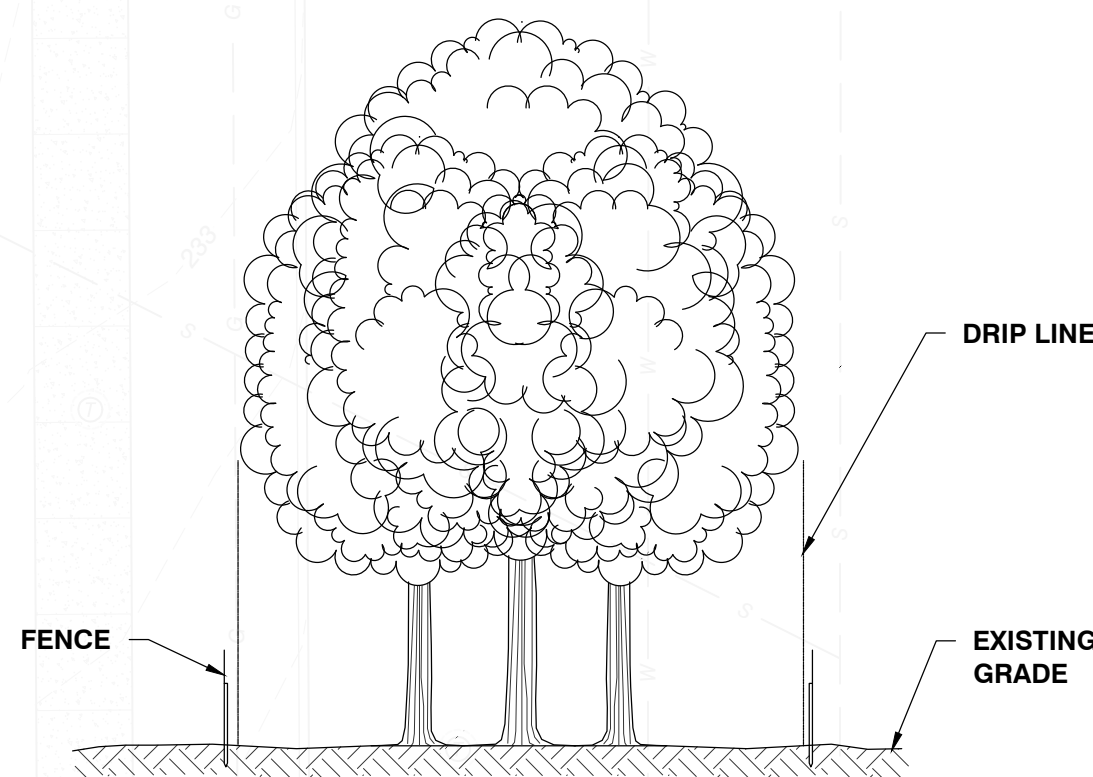
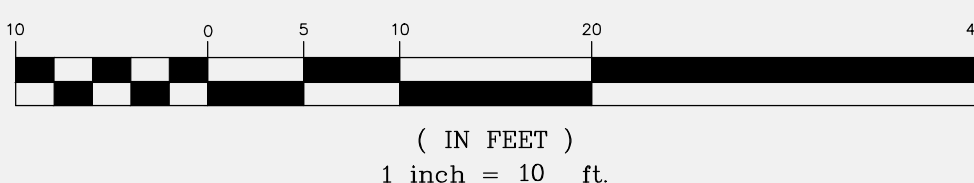
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C3.0

EROSION CONTROL SHALL BE IN STRICT CONFORMITY WITH THE LATEST REVISION OF THE " LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL " AVAILABLE FROM THE VT DEC STORMWATER SECTION.

GRAPHIC SCALE



NOTES:

- THIS FENCE SHALL BE LOCATED OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5' TO THE TRUNK OF ANY TREE.
- FENCE POST SHALL BE STANDARD STEEL POSTS OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
- THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE ENGINEER..

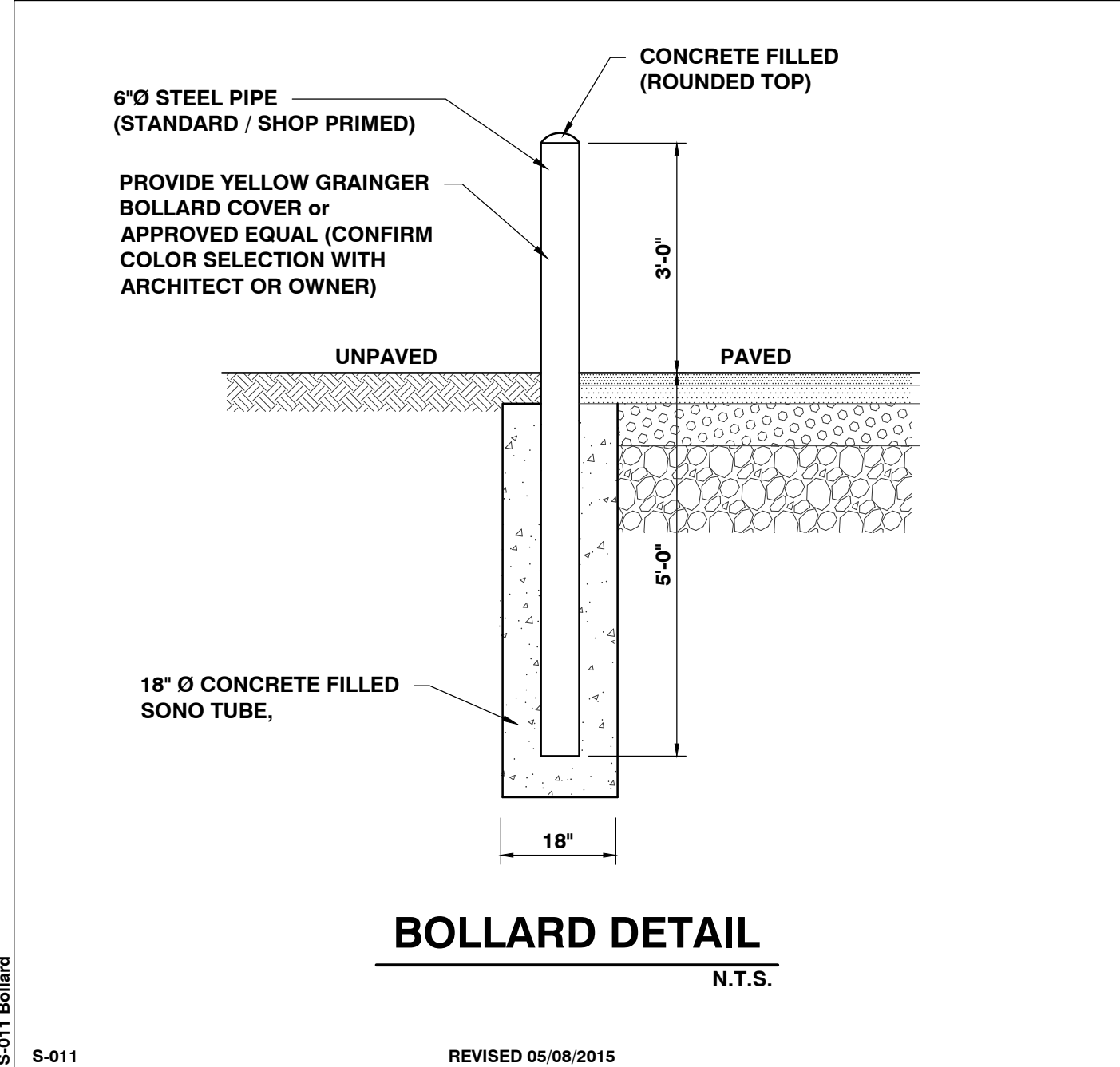
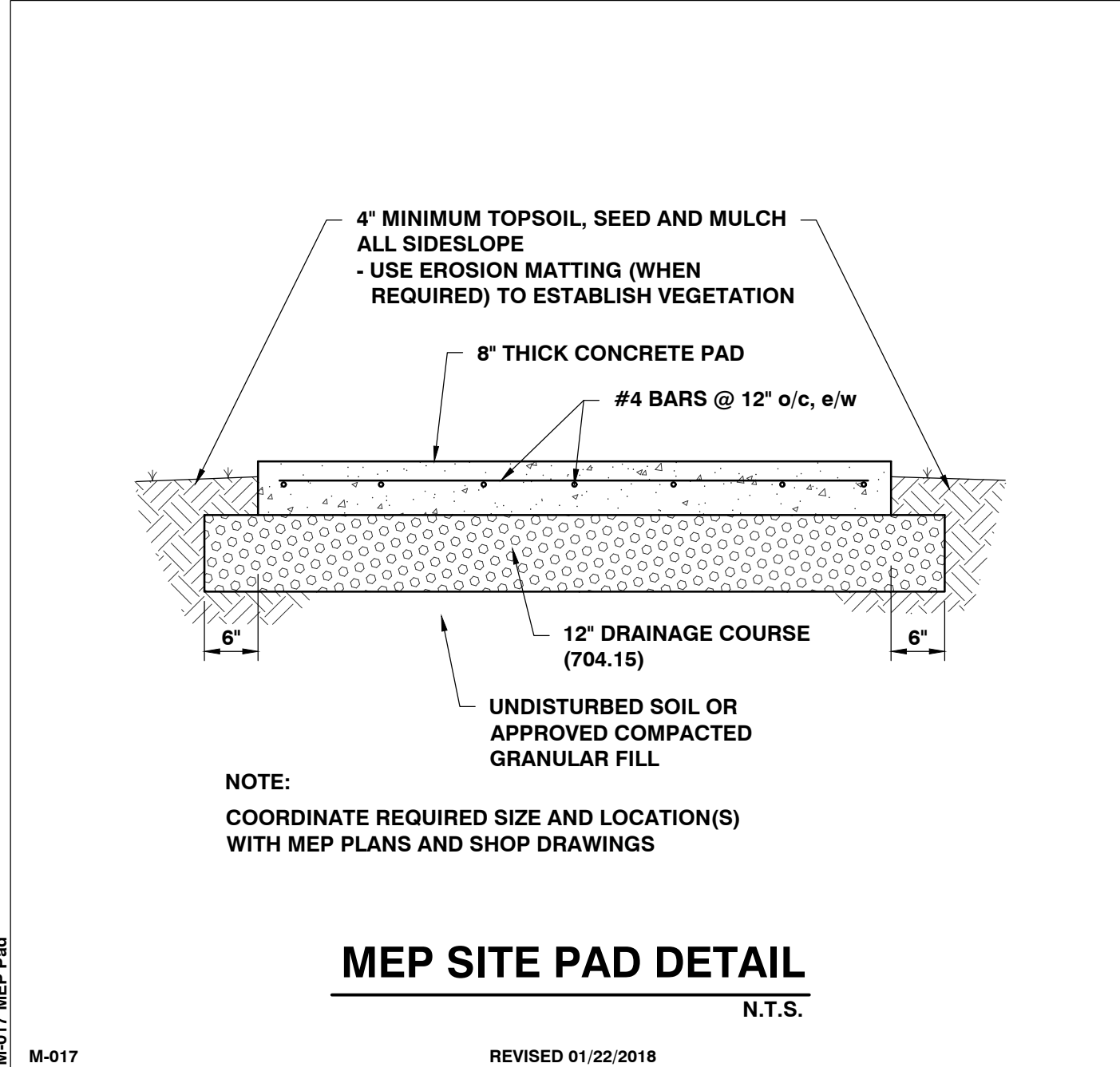
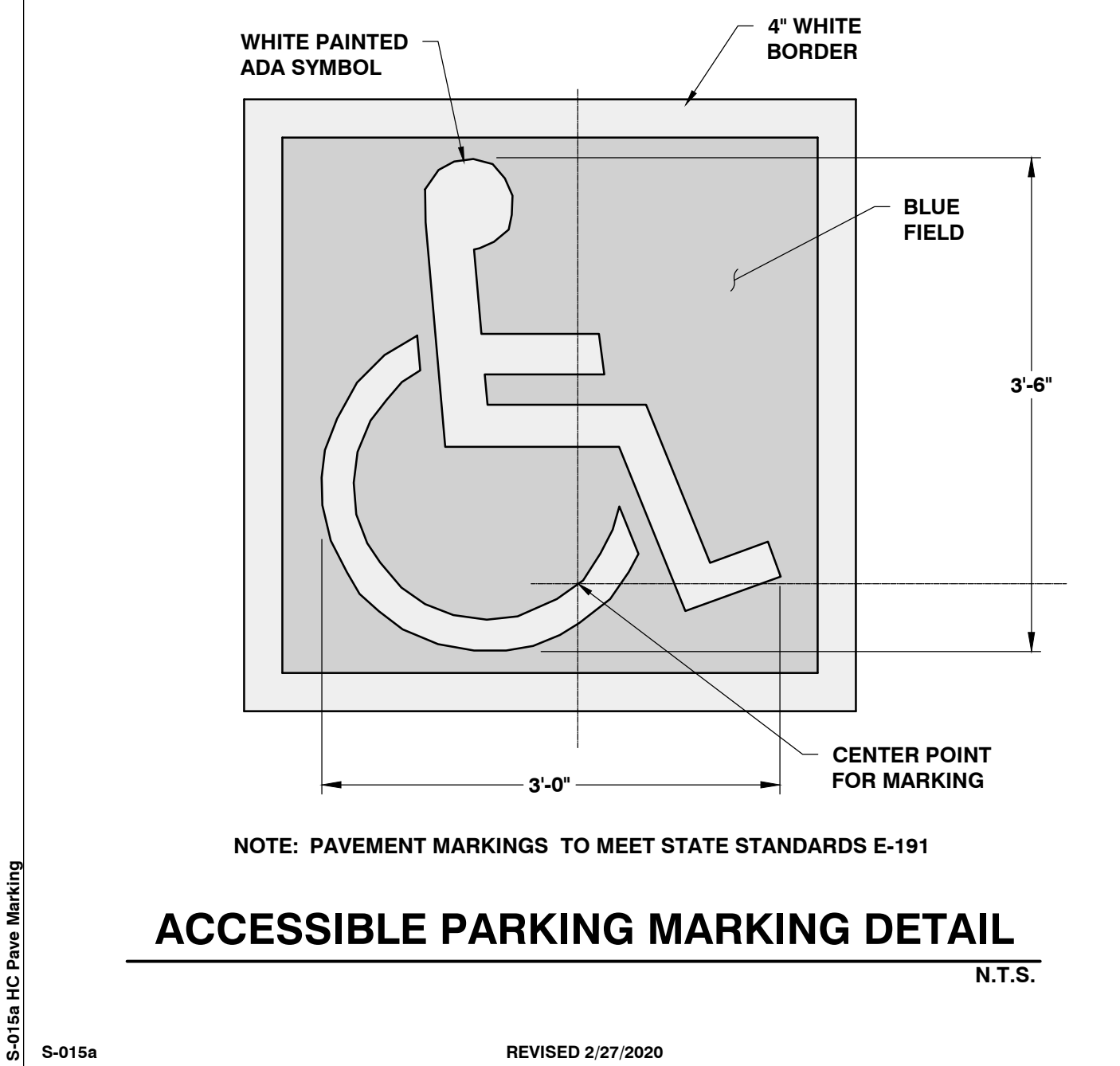
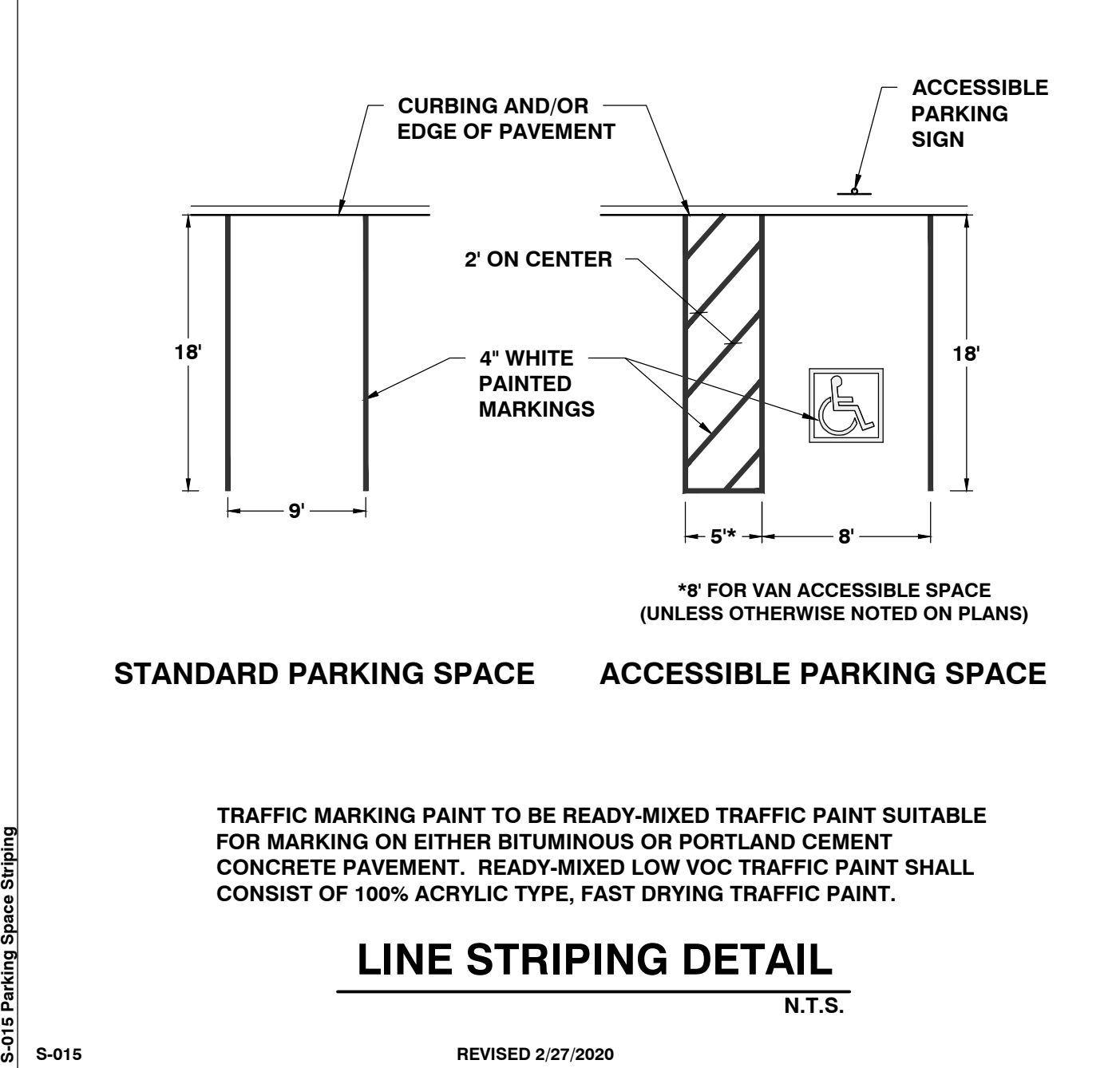
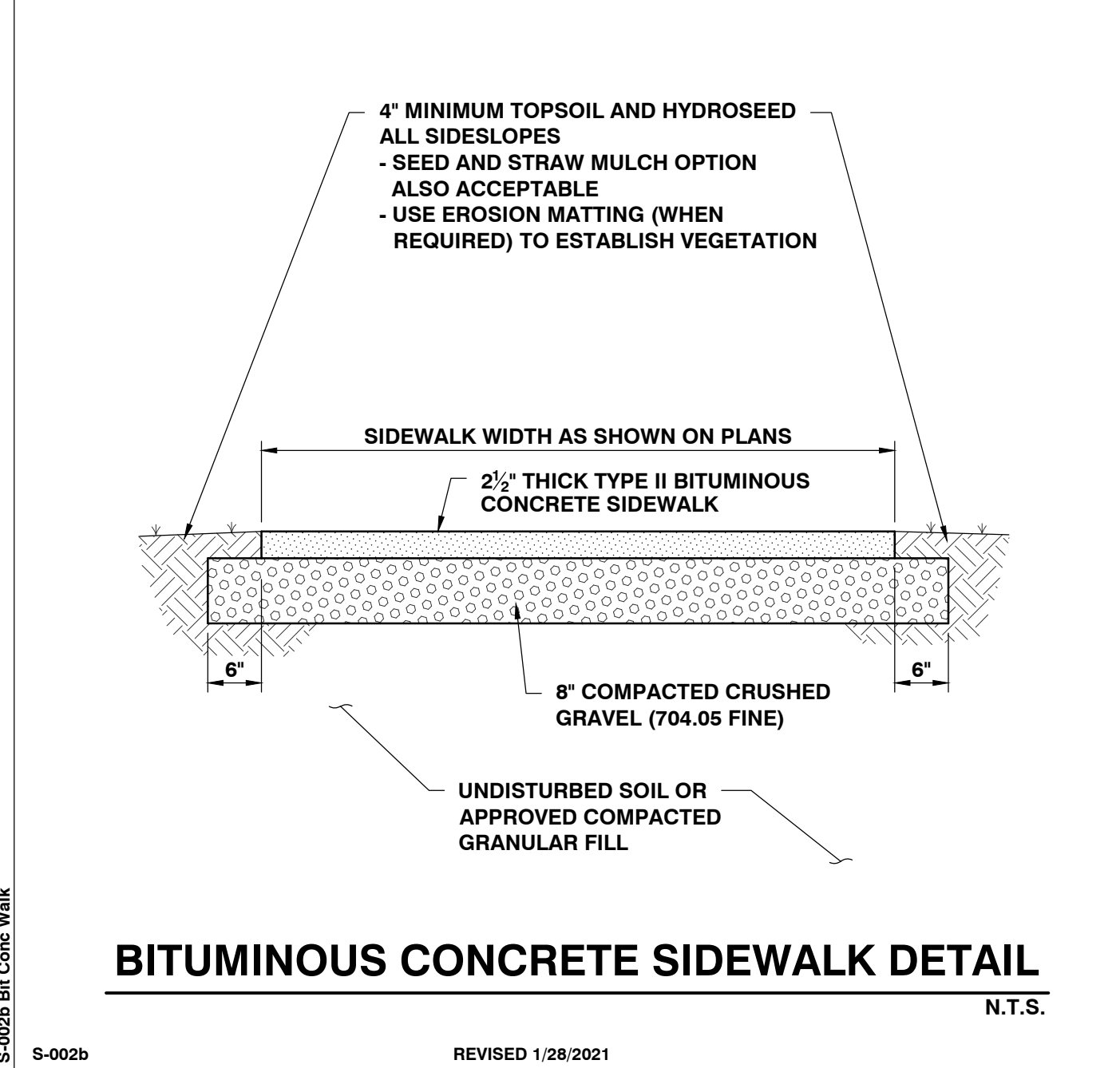
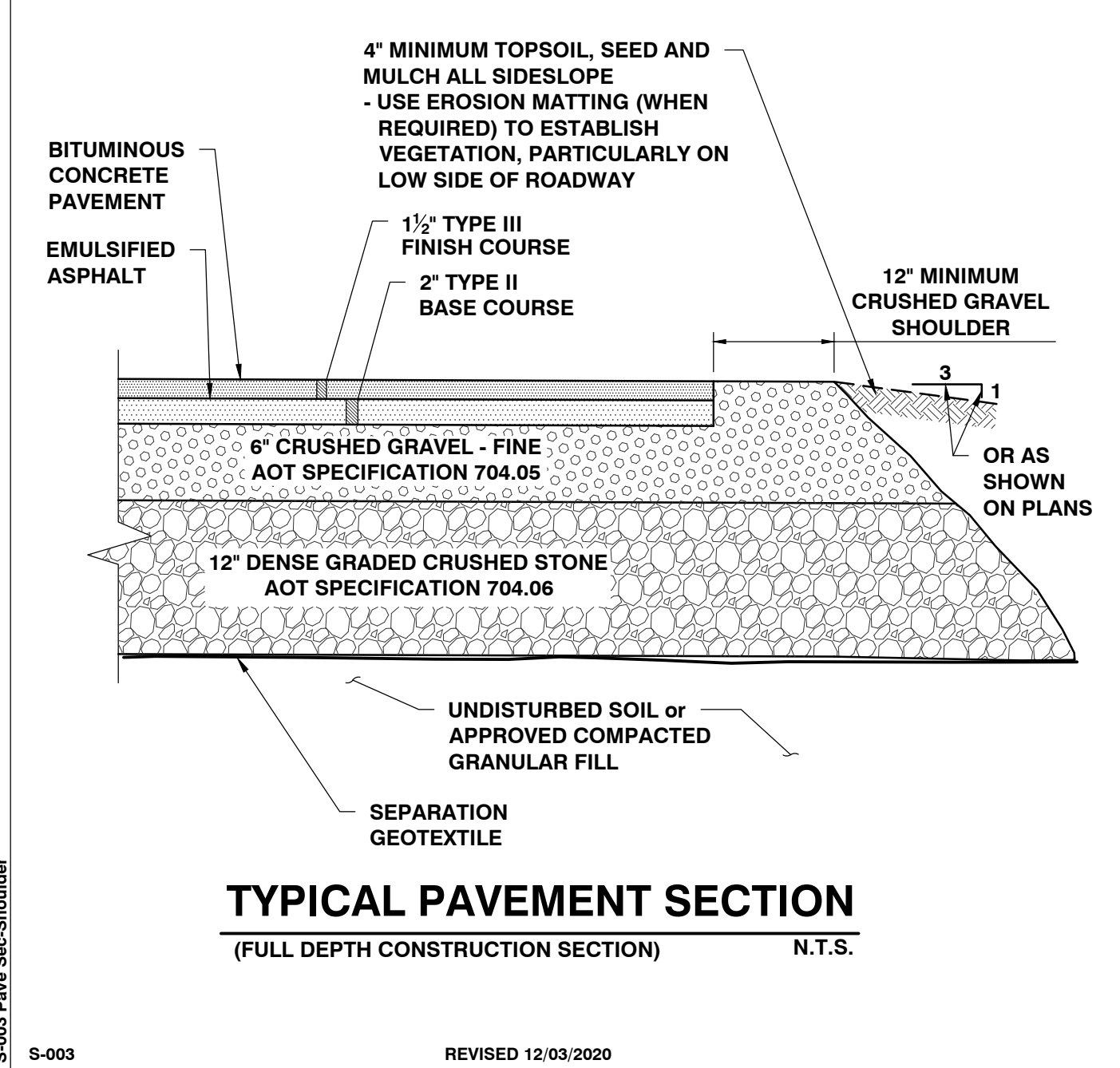
TREE PROTECTION - FENCING

N.T.S.


L-006 Tree Protection

L-006

REVISED 2/12/2015



SITE ENGINEER:



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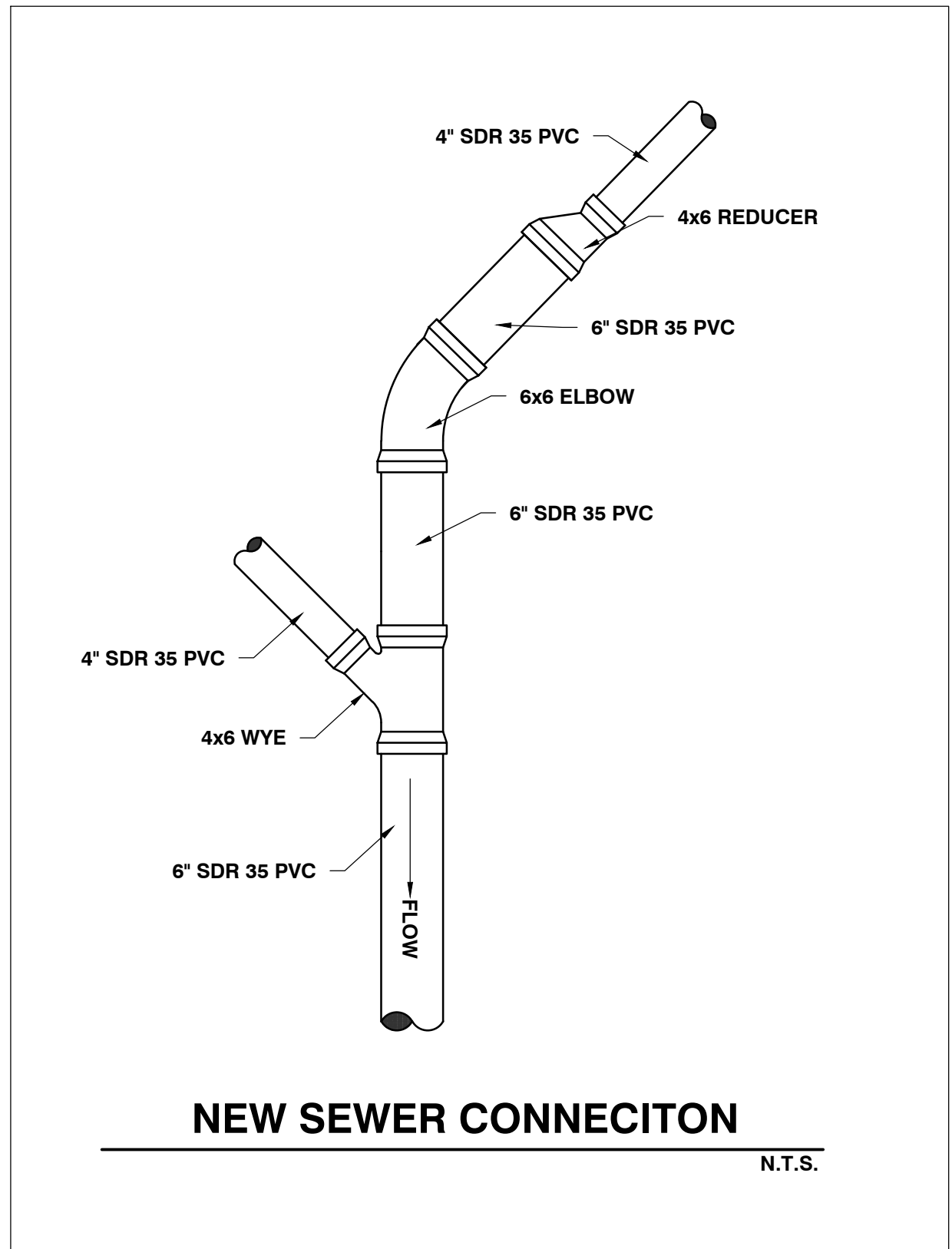
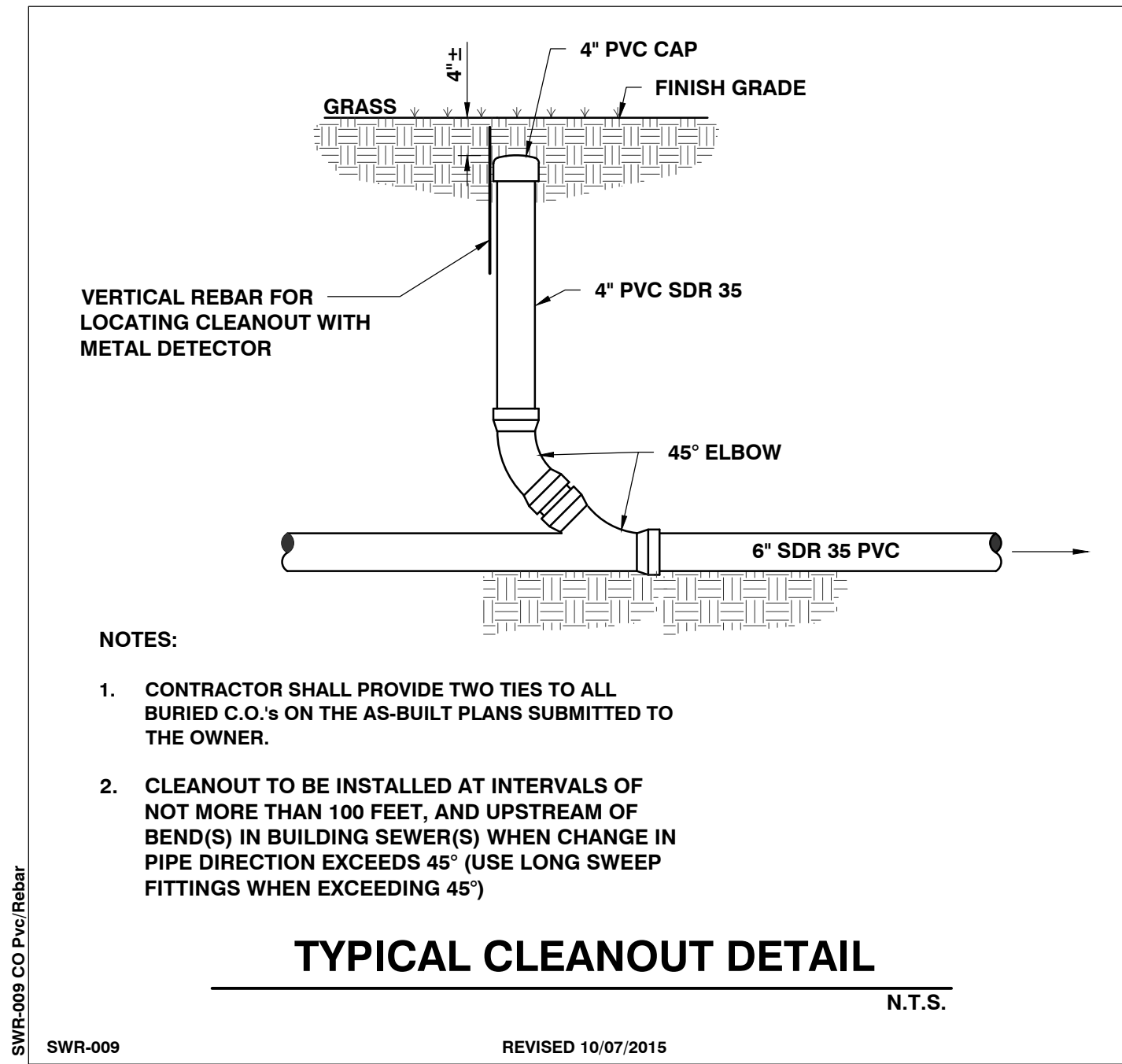
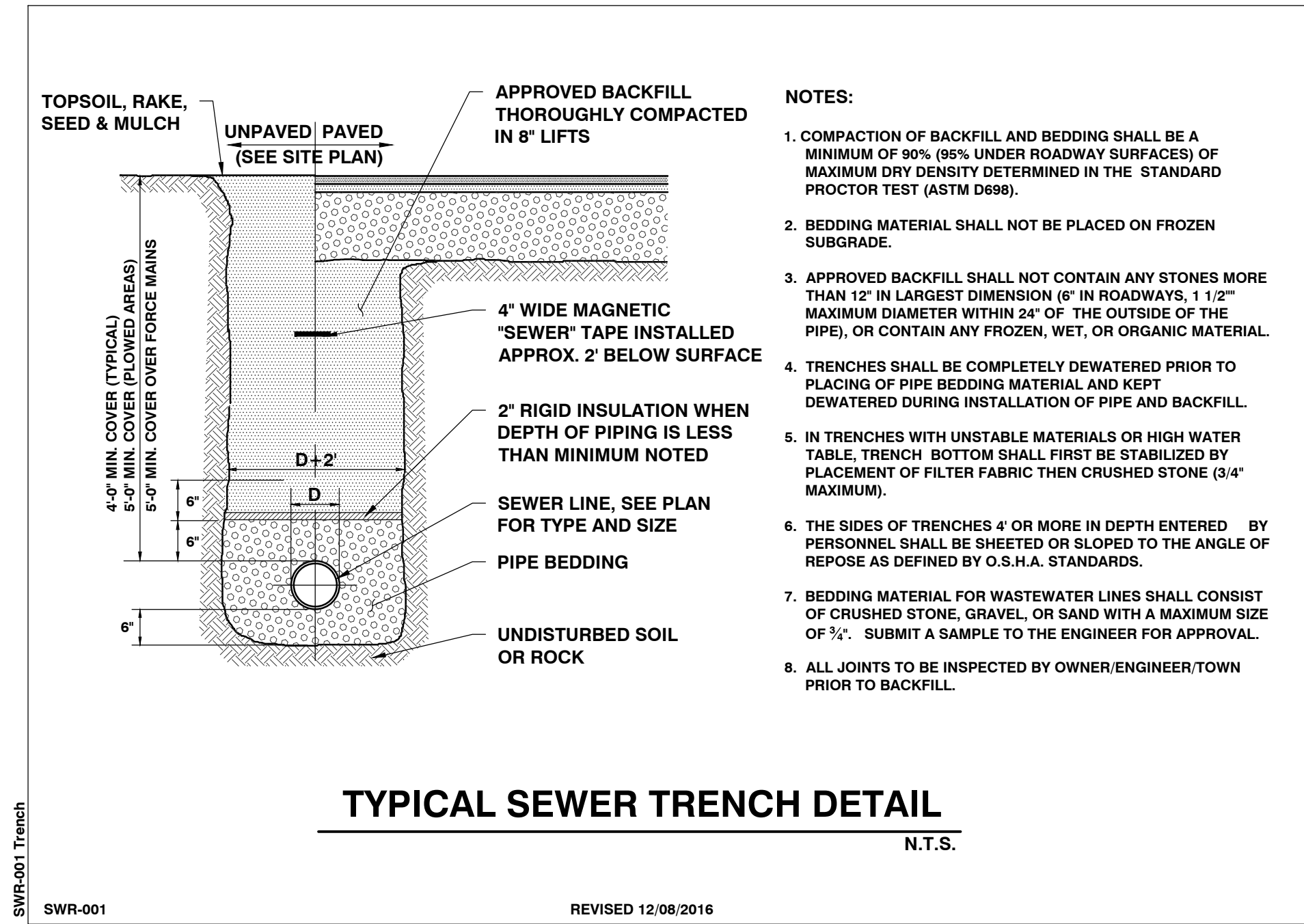
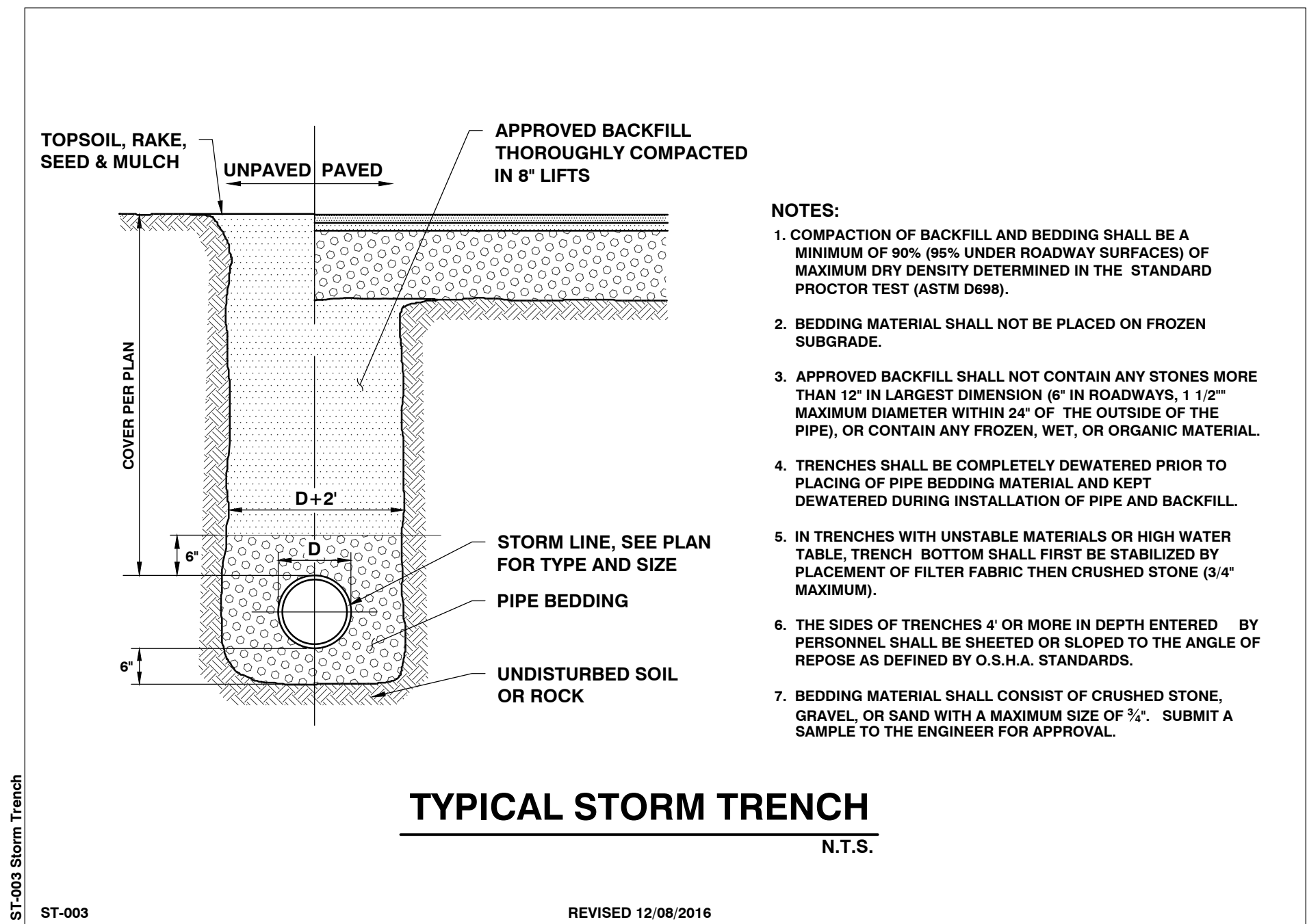
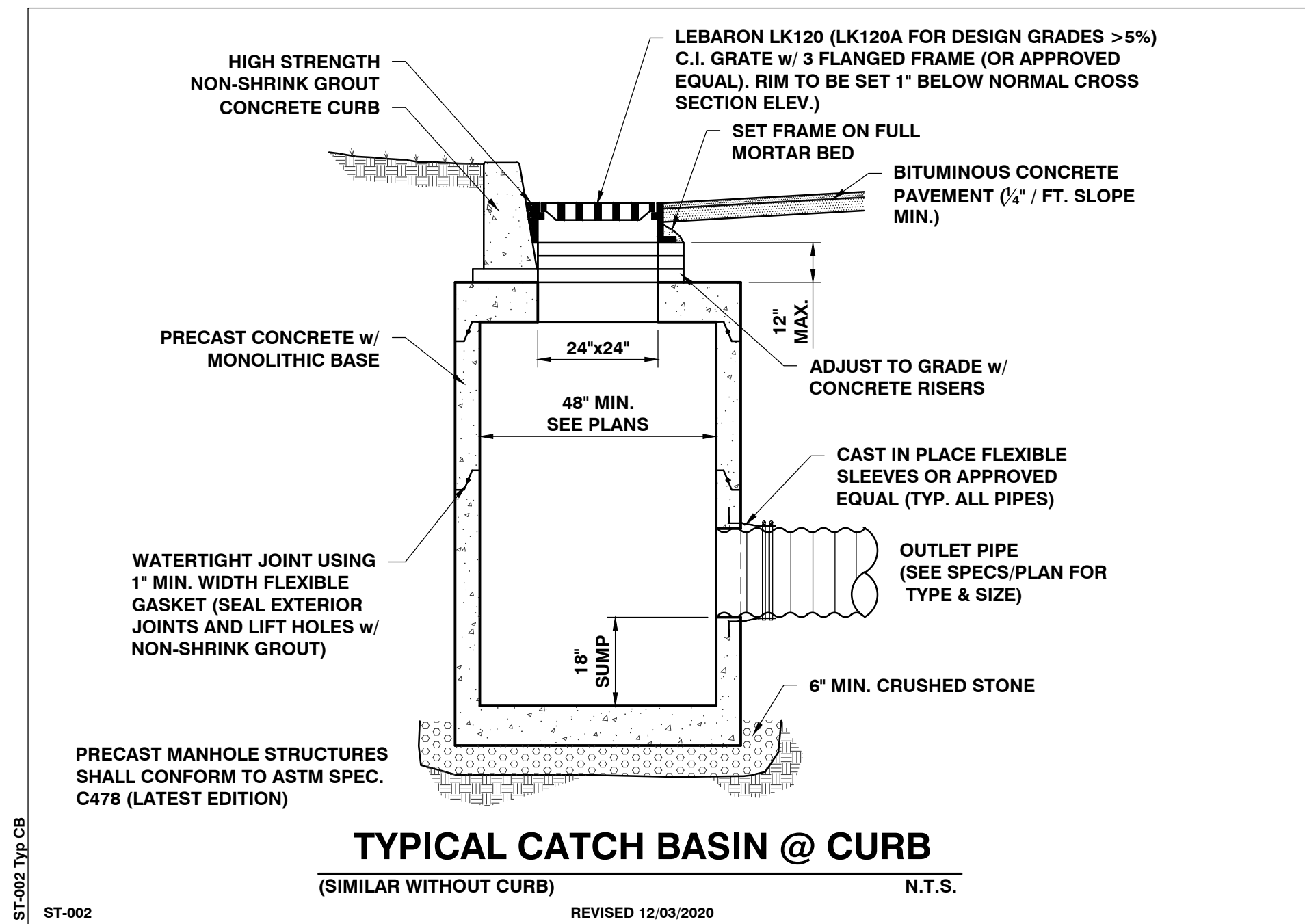
C.O.T.S.
Main Street Shelter

278 MAIN STREET
CITY of BURLINGTON, VT

DATE	CHECKED	REVISION

SITE DETAILS

DATE 09/30/2021	DRAWING NUMBER C4.0
SCALE AS SHOWN	
PROJ. NO. 21177	



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PROJECT:

C.O.T.S.
Main Street Shelter

278 MAIN STREET
CITY of BURLINGTON, VT

DATE	CHECKED	REVISION

UTILITY DETAILS

DATE

09/30/2021

SCALE

AS SHOWN

PROJ. NO.

21177

DRAWING NUMBER

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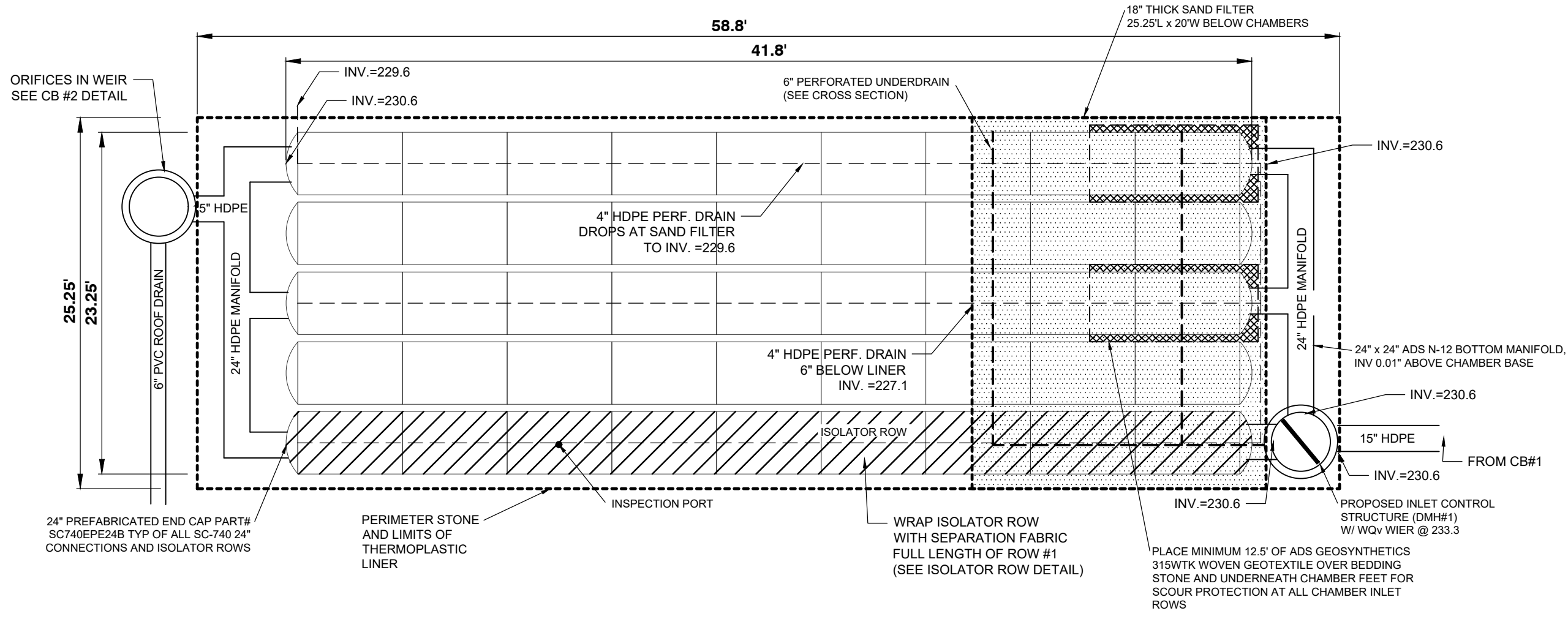
ADVANCED DRAINAGE SYSTEMS, INC.

CONCEPTUAL LAYOUT
(20) STORMTECH SC-740 CHAMBERS
(10) STORMTECH SC-740 END CAPS
INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 40% STONE VOID
INSTALLED SYSTEM VOLUME: 3633 CF (STORMTECH SYSTEM ONLY)
INSTALLED SYSTEM VOLUME: 3661 CF (STORMTECH SYSTEM + SAND FILTER)
AREA OF SYSTEM: 1,234 SF
PERIMETER OF SYSTEM: 2,468 FT

PROPOSED ELEVATIONS
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED): 241.10
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): 235.10
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC): 234.6
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT): 234.6
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT): 233.6
TOP OF STONE: 233.1
TOP OF CHAMBER: 233.1
24" BOTTOM MANIFOLD INVERT: 230.6
24" CONNECTION INVERT (ISOLATOR ROW): 230.6
BOTTOM OF CHAMBER: 230.10
BOTTOM OF STONE: 227.6

NOTES

- SAND FILL PLACED UNDER STORMTECH CHAMBER SYSTEMS MUST BE PROPERLY SPECIFIED AND COMPACTED SUCH THAT THE STRUCTURAL REQUIREMENTS SPECIFIED IN THE STORMTECH DESIGN MANUAL ARE MET.
- STRUCTURAL BEDDING STONE AND SEPARATION GEOTEXTILE IS REQUIRED OVER SAND FILL AND MUST BE INSTALLED AS PER THE STORMTECH DESIGN MANUAL.
- STORMTECH DOES NOT DESIGN SAND FILTER SYSTEMS AND CANNOT PROVIDED TECHNICAL INFORMATION ON HYDRAULIC PERFORMANCE, FILTER LONGEVITY, OR EFFECTIVENESS OF SAND FILTERS.



STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740 OR SC-310.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET, THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.

CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

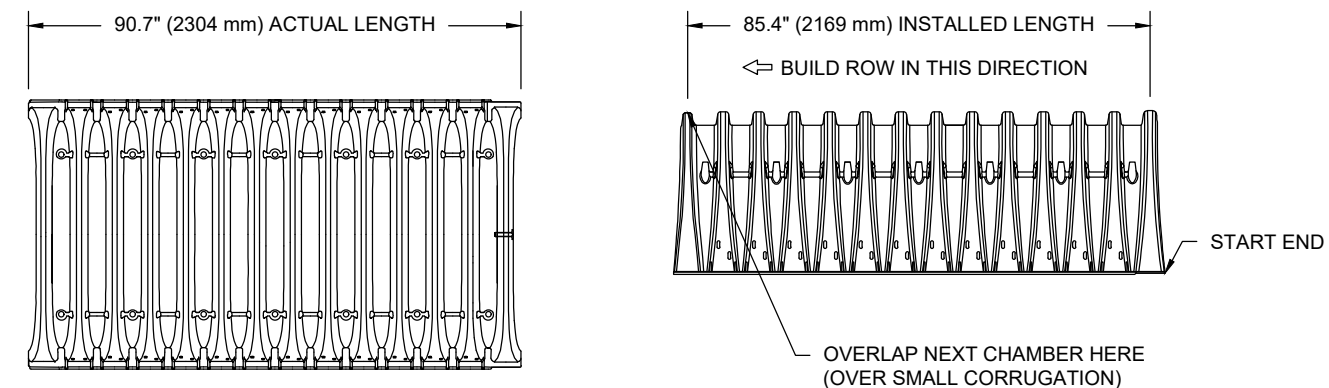
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



NOMINAL CHAMBER SPECIFICATIONS	
SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"
CHAMBER STORAGE	45.9 CUBIC FEET (1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET (2.12 m³)
WEIGHT	75.0 lbs. (33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE08T / SC740EPE08TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	0.5" (13 mm)
SC740EPE08B / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	0.6" (15 mm)
SC740EPE08T / SC740EPE08TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	0.7" (18 mm)
SC740EPE10B / SC740EPE10BPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	1.2" (30 mm)
SC740EPE12B / SC740EPE12BPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	1.3" (33 mm)
SC740EPE15T / SC740EPE15TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	1.8" (45 mm)
SC740EPE15B / SC740EPE15BPC	24" (600 mm)	18.5" (470 mm)	0.1" (3 mm)	---

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

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SC-740 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
F FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
E INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 14" (355 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145' A-1, A-2.4, A-3 OR AASHTO M43' 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
D EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43' 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
C FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43' 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}
B DRAINAGE SAND: PROVIDE 18" LAYER OF FILTER SAND ABOVE SUBGRADE.	FINE AGGREGATE CONCRETE SAND OR EQUAL	ASTM C-33	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}
A UNDER DRAIN STONE: PROVIDE 12" LAYER OF UNDERDRAIN STONE ABOVE SUBGRADE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43' 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE.
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'D' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'E' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'D' OR 'E' AT THE SITE DESIGN ENGINEER'S DISCRETION.

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403
P: 802-864-2323 FAX: 802-864-2271 web: www.cca-vt.com

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DRAWN

MAB

CHECKED

DSM

APPROVED

DSM

CLIENT:

Committee on
Temporary Shelter

P.O. Box 1616
Burlington, VT 05402

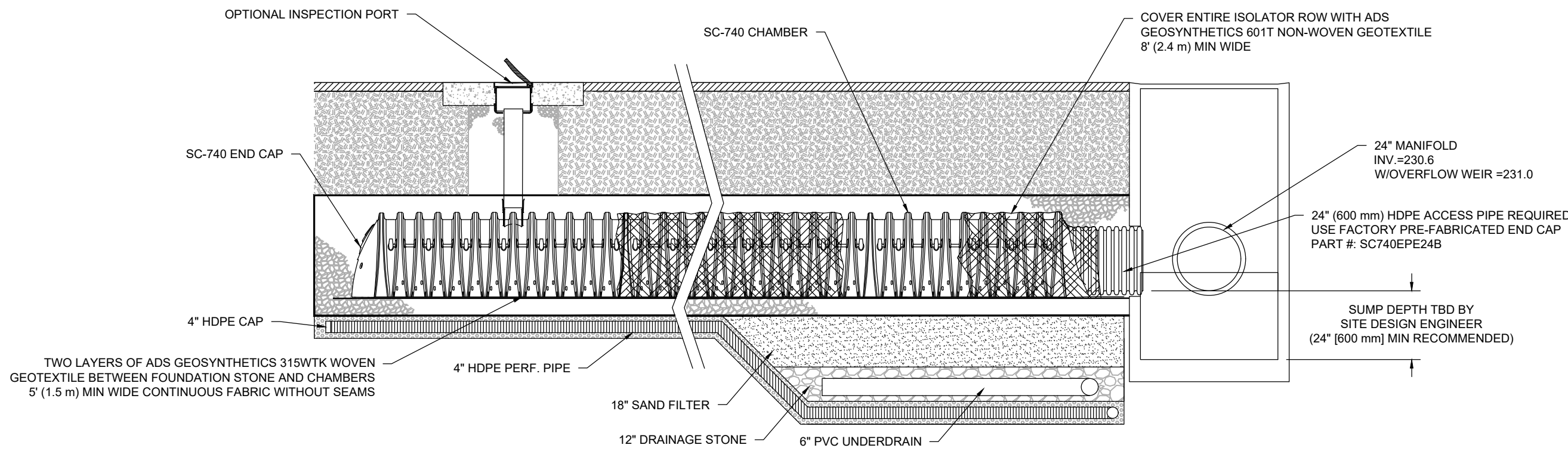
PROJECT:

C.O.T.S.
Main Street Shelter

278 MAIN STREET
CITY of BURLINGTON, VT

3

SC-740 ISOLATOR ROW DETAIL



INSPECTION & MAINTENANCE

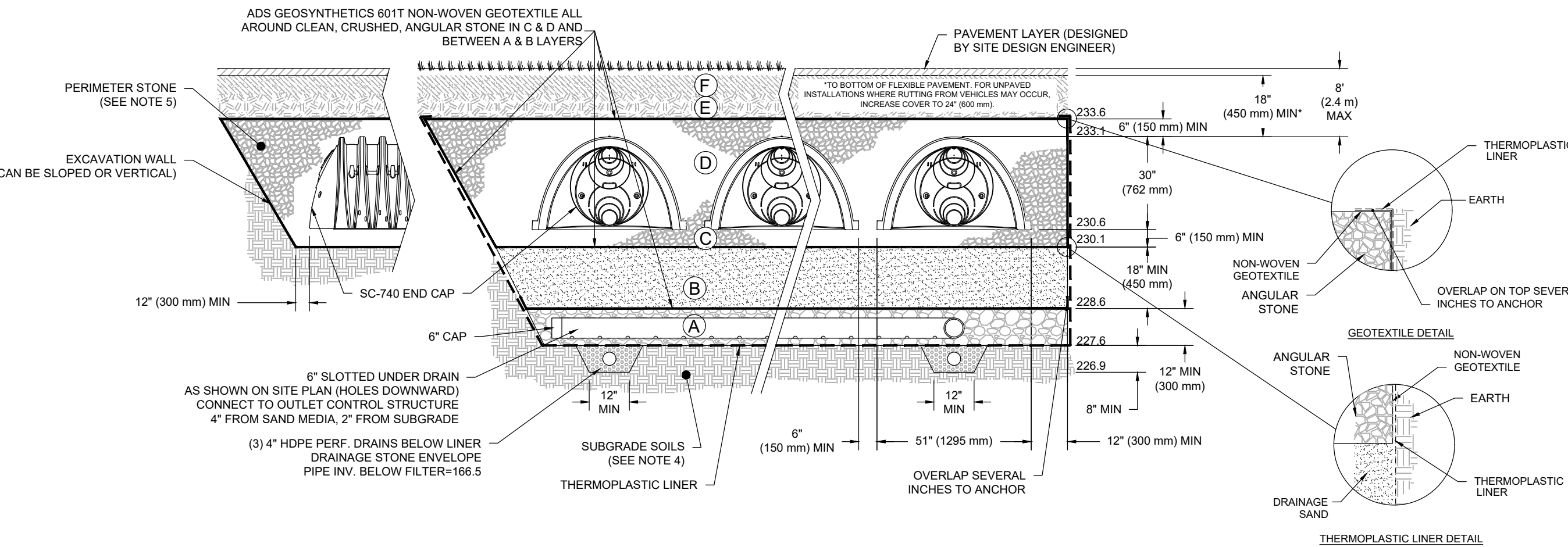
- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B.3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

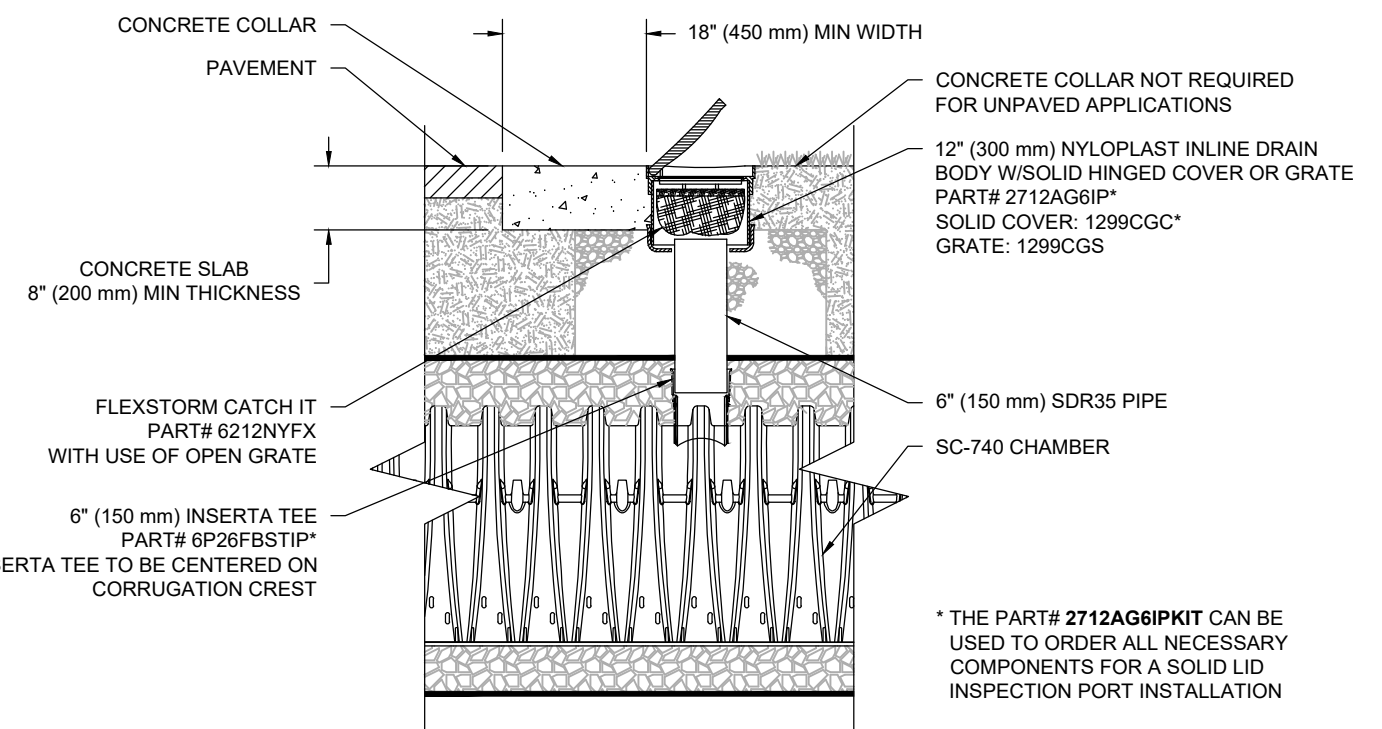
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SC-740 CROSS SECTION DETAIL



4

SC-740 6" (150 mm) INSPECTION PORT DETAIL



**STORMWATER
DETAILS**

DATE
09/30/2021

SCALE
AS SHOWN

PROJ. NO.
21177

DRAWING NUMBER

C4.2